

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

002

APPLICATION FOR PERMIT TO DRILL OR REENTER


FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

5. Lease Serial No. <b>U-73019</b>	
6. If Indian, Allottee or Tribe Name <b>NA</b>	
7. If Unit or CA Agreement, Name and No. <b>BUCK CAMP UNIT</b>	
8. Lease Name and Well No. <b>14-4</b>	
9. API Well No.	
10. Field and Pool, or Exploratory <b>BUCK CANYON</b>	
11. Sec., T. R. M. or Blk. and Survey or Area <b>SEC. 4, T12S-R22E, S.L.B &amp; M</b>	
12. County or Parish <b>UNITAH</b>	
13. State <b>UT</b>	
14. Distance in miles and direction from nearest town or post office* <b>APPROXIMATELY 29 MILES SOUTHEAST OF OURAY, UTAH</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>482'</b>	
16. No. of acres in lease <b>2159.59</b>	
17. Spacing Unit dedicated to this well <b>40</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>2107'</b>	
19. Proposed Depth <b>8,300'</b>	
20. BLM/BIA Bond No. on file <b>BOND APPROVED</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6310' UNGRADED GROUND</b>	
22. Approximate date work will start* <b>02/15/2005</b>	
23. Estimated duration <b>12 DAYS</b>	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) <b>TODD S. MCDONALD</b>	Date <b>12/01/2004</b>
Title <b>VICE PRESIDENT</b>		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

001

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: U-73019	6. SURFACE: Federal
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: na	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: <del>Buck Camp Unit</del>	
2. NAME OF OPERATOR: Mak-J Energy Operating Company, LLC.				9. WELL NAME and NUMBER: 14-4	
3. ADDRESS OF OPERATOR: 370 17th St., Suite 2710, CITY Denver STATE Co ZIP 80202			PHONE NUMBER: (303) 339-5873	10. FIELD AND POOL, OR WILDCAT: Buck Canyon	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: 534' FWL & 482' FSL 631269X 39.796719 AT PROPOSED PRODUCING ZONE: same as above 4406110Y -109.466777				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: approximately 29 miles southeast of Ouray, Utah				12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 482'		16. NUMBER OF ACRES IN LEASE: 2159.99		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 2107'		19. PROPOSED DEPTH: 8,300		20. BOND DESCRIPTION: Bond approved	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6310' ungraded ground		22. APPROXIMATE DATE WORK WILL START: 2/15/2005		23. ESTIMATED DURATION: 12 days	

24. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT		SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT	
12 1/4"	8 5/8"	J55	24	1,000	Lead: Premium Lite 180 sxs 2.31 cu.ft./sx 12.0 ppg
					Tail: Class'G' 370 sxs 1.17 cu.ft./sx 15.8 ppg
7 7/8"	4 1/2"	N80	11.6	8,300	Lead: Hi Strength 420 sxs 1.96 cu.ft./sx 13.0 ppg
					DV tool @ 5100'
					Lead: Premium Lite 130 sxs 3.38 cu.ft./sx 11.0 ppg
					Tail: Hi Strength 460 sxs 1.96 cu.ft./sx 13.0 ppg

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN  |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input checked="" type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Todd S. McDonald TITLE Vice President  
SIGNATURE *Todd S. McDonald* DATE 12/1/2004

(This space for State use only)

API NUMBER ASSIGNED: 43-047-361 40

**Federal Approval of this  
Action is Necessary**

**Approved by the  
Utah Division of  
Oil, Gas and Mining**  
APPROVAL:  
Date: 12-07-04  
*[Signature]*

**DEC 03 2004**

**T12S, R22E, S.L.B.&M.**

N89°57'W - 5280.00' (G.L.O.)

T11S

T12S

1922 Brass Cap,  
2.5' High, Pile of  
Stones

Lot 4

Lot 3

Lot 2

Lot 1

1922 Brass Cap,  
1.5' High, Pile of  
Stones

4

**BUCK CAMP UNIT #14-4**  
Elev. Ungraded Ground = 6310'

1922 Brass Cap,  
0.5' High

1922 Brass Cap,  
2.0' High, Pile of  
Stones

S-1/4 Sec. 5  
1922 Brass  
Cap, 1.2' High,  
Pile of Stones

N89°47'46"W  
2638.81' (Meas.)

Section Corner  
Re-Established Using  
Double Proportion Method  
(Not Set on Ground)

N89°54'06"W - 2632.47' (Meas.)

S89°16'19"E - 2649.81' (Meas.)

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

### LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

△ = SECTION CORNERS RE-ESTABLISHED

(NAD 83)  
LATITUDE = 39°47'48.37" (39.796769)  
LONGITUDE = 109°28'02.76" (109.467433)  
(NAD 27)  
LATITUDE = 39°47'48.49" (39.796803)  
LONGITUDE = 109°28'00.31" (109.466753)

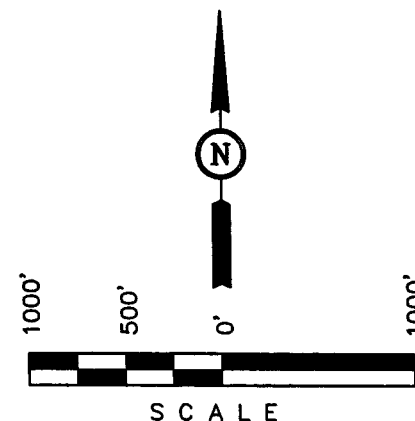
W-1/4 Sec. 9,  
1922 Brass Cap,  
1.8' High, Pile  
of Stones

## MAK J ENERGY

Well location, BUCK CAMP UNIT #14-4,  
located as shown in the SW 1/4 SW 1/4  
of Section 4, T12S, R22E, S.L.B.&M.  
Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE  
NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN  
FROM THE BIG PACK MTN NE QUADRANGLE, UTAH,  
UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL  
MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT  
OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION  
IS MARKED AS BEING 5238 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

## UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-18-04	DATE DRAWN: 10-27-04
PARTY G.O. K.K. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE MAK J ENERGY	

**EIGHT POINT DRILLING PLAN**  
**Attached to Form 3160-3: Application for Permit to Drill**  
**Mak-J Energy Operating Company, LLC**  
**Buck Camp Unit #14-4**  
**Federal Lease Number U-73019**  
**534' FWL & 482' FSL, Sec 4, T12S- R22E, SLB&M**  
**Uintah County, Utah**

**1. ESTIMATED TOPS - IMPORTANT GEOLOGIC MARKERS**

Uinta	0'
Green River	100'
Wasatch	3210'
Mesaverde	5225'
Neslen	6710'
Sego	7660'
Castlegate	7820'
Mancos	8120'
Total Depth	8300'

**2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS**

Water:	Green River:	occasional sands from 100' to 3210'
	Wasatch:	occasional sands from 3210' to 5225'
	Mesaverde:	occasional sands from 5225' to 7660'
Oil:	no oil is anticipated during the drilling of this well	
Gas:	Wasatch:	occasional sands from 3210' to 5225'
	Mesaverde:	occasional sands from 5225' to 6710'
	Neslen:	occasional sands from 6710' to 7660'
	Sego:	occasional sands from 7660' to 7820'
	Castlegate	occasional sands from 7820' to 8120'
	Mancos	occasional sands from 8120' to 8140'

**3. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL**

- a. A diagram of the Blowout Preventer Stack and Choke Manifold is presented in Exhibit #1 and #1A.
- b. Although a 2M system is all that is required for this operation it is anticipated that the drilling rig will furnish a 3M (3,000 psi minimum Working Pressure) system consisting of:
  - i. The Blow-Out Preventer Stack Description and Specifications:
    - An 8-5/8" x 11" SOW 3,000 psi WP casing head will be installed as the starting head.
    - An 11" 3,000 psi x 11" 3,000 psi WP drilling spool will be installed on the starting head.

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**Uintah County, Utah**

- An 11" x 3,000 psi WP (min) double gate hydraulic type ram preventer with pipe rams over blind rams will be installed above the drilling spool.
- An 11" x 3,000 psi (WP) annular preventer will be installed on top of the double gate preventer.
- An 11" rotating head may be installed above an annular preventer.

ii.      **The Choke and Kill Manifolds:**

- A 2" x 3,000 psi (min) kill line and a 3" x 3,000 psi (min) choke line will be tied into opposite sides of the 11" x 3,000 psi WP (min) drilling spool.
- Two 3" x 3,000 psi (min) WP FO gate valves will be up-stream of the choke manifold assembly. These valves will be in the open position during normal drilling operations.
- The choke manifold will consist of both 2" & 3" x 3,000 psi (min) WP pipe (see Exhibit 1). The 3" pipe will be the bleed line to the flare pit. There will be 2 - 2" lines, both directed to the mud gas separator or pit. There will be 2 - 2" x 3,000 psi (min) WP FO adjustable chokes downstream of 2 - 2" x 3000 psi (min) WP FO valves on the 2" lines. These valves will be closed during normal mud drilling operations. A single 3" x 3,000 psi (min) WP FO gate valve will be between the flow tee and the 3"(min) bleed line. This valve will be closed during normal mud drilling operations. In-board of the gate valves in the manifold assembly there will be a 3" x 3,000 (min) psi WP flow tee with bull plug, needle valve, and gauge for well control operations.
- The bleed line will be appropriately staked and chained down to the flare pit.
- The 2" kill line will consist of 2 valves (3,000 psi min) one of which will be a check valve.

iii.      **Surface Drill String Valves:**

- A 3,000 psi WP (min) FO safety valve with subs to fit all drill strings in use will be kept on the drill floor after surface casing is set.
- A 3,000 psi (min) WP Upper kelly valve with handle will be used throughout drilling operations.

iii.      **The Accumulator System:**

- The 3M system accumulator shall have sufficient capacity to close all BOP equipment and retain a minimum of 200 psi above the pre-charge pressure on the closing manifold without the use of the closing pumps. A nitrogen bottle system may be used to provide

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**Uintah County, Utah**

independent (reserve) power to operate the system in the event rig motors must be shut down.

c. **Testing Procedures and Test Frequency:**

- All of the pressure side BOP Equipment specified in Part b. above will be nipped-up on the surface casing. A test plug will then be set in the starting head profile.
- All ram type preventers and associated equipment will be hydraulically tested for ten (10) minutes (min) to 2000 psi and five (5) minutes (min) to 300 psi prior to drilling out cement. The annular preventer shall be tested to 1500 psi (50% of rated working pressure). Surface casing will be pressure tested to 1500 psi before drilling out the surface casing shoe. These components will be re-tested every 30 days, whenever any seal subject to test pressure is broken, and following any related repairs.
- Pipe rams will be operationally checked each 24-hour period and the blind rams operationally checked each time pipe is pulled from the hole.
- All pressure tests and function tests will be noted on the daily drilling report.

d. **Tripping procedures for well control:**

- The anticipated maximum bottom-hole formation pressure is 3625 psi in the Mancos. The anticipated mud weight at T.D. is 9.4 PPG. This will provide an anticipated hydrostatic pressure of 4060 psi for an over-balance pressure of +/-450 psi in the Mancos.
- The well will be drilled by a triple, double, or lay-down singles derrick rig with 4-1/2" drill pipe and 6" (minimum) drill collars.
- The well will be monitored each 9-10 joints on trips out of the hole to insure that the BHA is not swabbing the well in. The well will be filled after each 30 joints of drill pipe and as each drill collar is pulled from the hole. Pits will be monitored in order to insure that the well is taking fluid on the trip.
- The fill-up line will be used to fill the well on trips. The kill line **WILL NOT** be used to fill the well on trips.
- **In the event that the bit is plugged on a trip the well will be filled after each 15 joints of drill pipe are pulled from the well and as each drill collar is pulled from the well. Swabbing will be checked each 6 joints.**

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**Uintah County, Utah**

**4. CASING AND CEMENTING PROGRAM**

a. General Casing and Cementing Design Specifications:

Hole Size, In.	Depth, Ft	Casing OD, In	Wt/Gd/Jt/Cond	Cement
12-1/4"	1000' (Min)	8-5/8"	24 #/Ft; J-55; STC; New	Lead: 180 sks Premium Lite II + 2% CaCl + 0.25 #/sk Celloflake + 3 #/sk Kol Seal + 0.5% Sodium Metasilicate + 8% Bentonite 2.31 cuft/sk, 12.0 #/gal  Tail: 370 sks Class "G" + 2% CaCl + 0.25#/sk Celloflake 1.17 cuft/sk, 15.8 #/gal
7-7/8"	8300'	4-1/2"	11.6 #/ft; N-80 LTC; New	Stage 1: Lead: 420 sks Premium Lite High Strength Cement + 0.1% R-3 + 0.25 #/sk Cello Flake + 0.2% FL-25 + 0.5% Sodium Metasilicate + 3 #/sk Kol Seal + 3% KCL 1.96 cuft/sk, 13.0 #/gal.  <b><u>Stage Tool @ 5100'</u></b>  <b><u>Stage 2</u></b> Lead: 130 sks Premium Lite II Cement + 10% Bentonite + 0.25 #/sk Cello Flake + 0.5% Sodium Metasilicate + 5 #/sk Kol Seal + 3% KCL 3.38 cuft/sk, 11.0 #/gal.  Tail: 460 sks Premium Lite II High Strength + 0.1% R-3 + 3% KCL + 0.25#/sk Cello Flake + 3 #/sk Kol Seal + 0.2% FL-25 + 0.5% Sodium Metasilicate 1.96 cuft/sk, 13.0 #/gal  Note: Actual cement volume to be based upon caliper log.

**EIGHT POINT DRILLING PLAN**  
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**Uintah County, Utah**

- NOTE: A full attempt will be made to lift cement at least 200' into the surface casing shoe. A mud log from the base of the surface casing to T.D. is planned and a Formation Density / Compensated Neutron porosity log will be run from T.D. to the base of surface casing to confirm volumes prior to cementing.
- b. Casing Centralization Equipment:
  - i. Surface Casing:
    - A total of 14 centralizers will be run on the 8-5/8" OD Surface Casing: 1 each on the bottom 3 joints of the casing and 1 on every other collar to surface.
  - ii. Production Casing:
    - Placement of centralizers will be determined after review of the open hole logs.

**5. PROPOSED DRILLING FLUIDS**

DEPTH	TYPE	MUD WT., LB/GAL	VISCOSITY	WATER LOSS
0' – 1000' (Min)	Fresh water gel	NA	NA	No Control
1000' – 3400'	KCL Polymer	8.4 – 8.8	32 – 36 Sec/Qt	10 – 18
3400' – TD	KCL Polymer	8.8 – 9.4	36 – 40 Sec/Qt	8 – 10

**6. LOGGING, TESTING, AND CORING PROGRAM**

- a. The logging program will consist of:
  - i. AIT/GR/SP:  
T.D. to surface casing
  - ii. FDC – CNL w/ GR & Caliper:  
T.D. to surface casing
- b. No cores are planned.
- c. No DST's are planned.



**EIGHT POINT DRILLING PLAN**  
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- d. A manned mud logging unit with a hotwire and chromatograph is planned from the base of the surface casing to TD. 30 ft samples will be obtained from the base of the surface casing to TD or at geologist's discretion.

**7. ABNORMAL CONDITIONS - PRESSURE - TEMPERATURE - POTENTIAL HAZARDS**

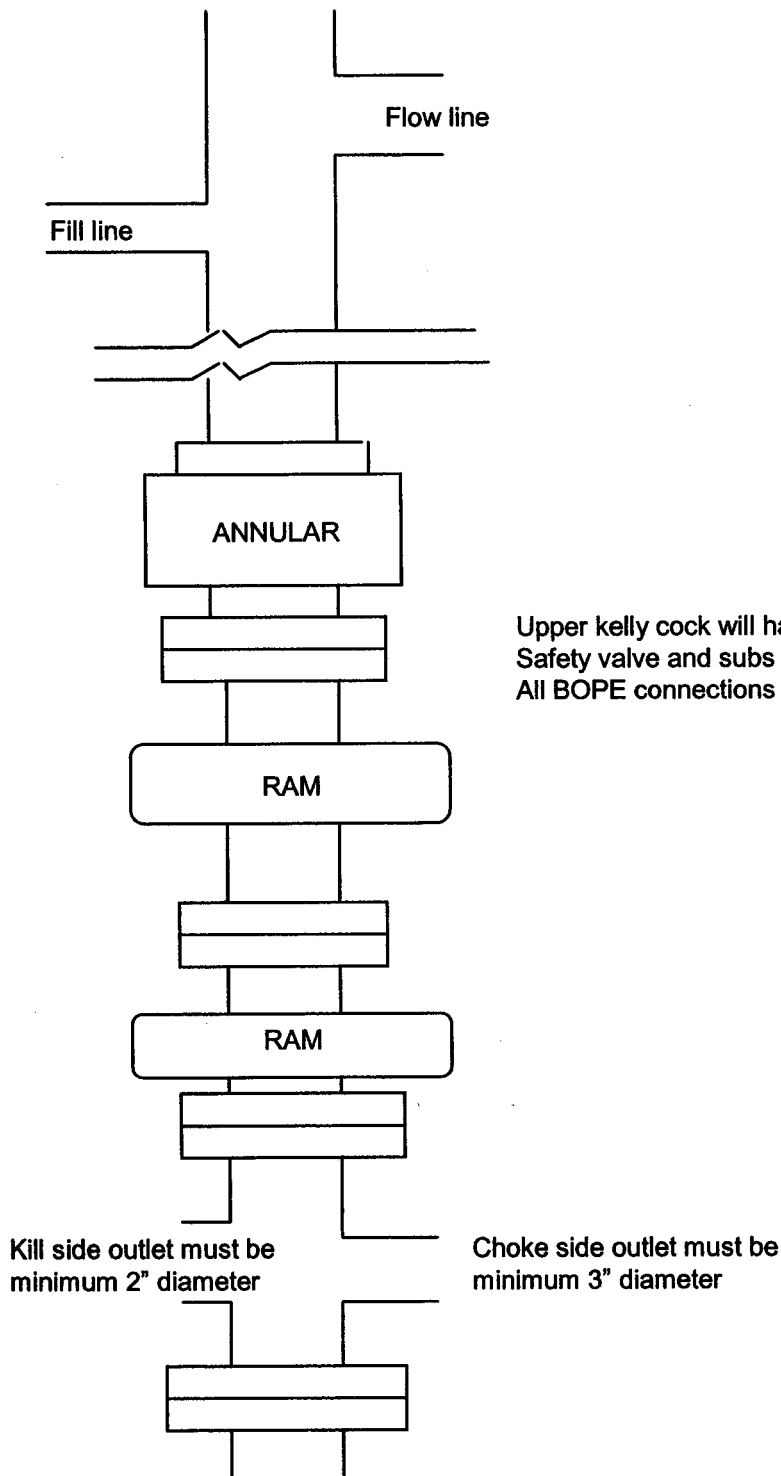
Normal pressures and temperatures are expected in the objective formation. A maximum surface shut-in pressure, assuming a partially evacuated hole with a pressure gradient of 0.22 psi/ft, is 1825 psi. A maximum bottom hole temperature of 190 degrees Fahrenheit is anticipated. Sour gas (H<sub>2</sub>S) is not anticipated.

**8. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS**

Road and location construction will begin as soon as APD approval has been granted by the BLM. The anticipated spud date for this well is currently February 15, 2005 subject to rig availability and permit approval. A spud rig may be moved in prior to the drilling rig to set surface casing. Once surface casing has been set drilling operations should be finished within 7 to 10 days. Side-tracking operations, if required, will considerably extend the period of operations. Appropriate verbal notification of side-tracking operations shall immediately be made if such operations are required, plug-back procedures confirmed, and appropriate Sundry Notices filed as soon as possible. If the subject well is deemed to be capable of production an additional 10 to 15 days will be required for completion.

### 3M BLOWOUT PREVENTION STACK

Buck Camp Unit #14-4  
Federal Lease #U-73019  
534' FWL & 482' FSL  
Section 4, T12S-R22E  
Uintah County, Utah



Upper kelly cock will have handle available.  
Safety valve and subs will fit all drill string connections in use  
All BOPE connections subjected to well pressure will be flanged, welded, or clamped

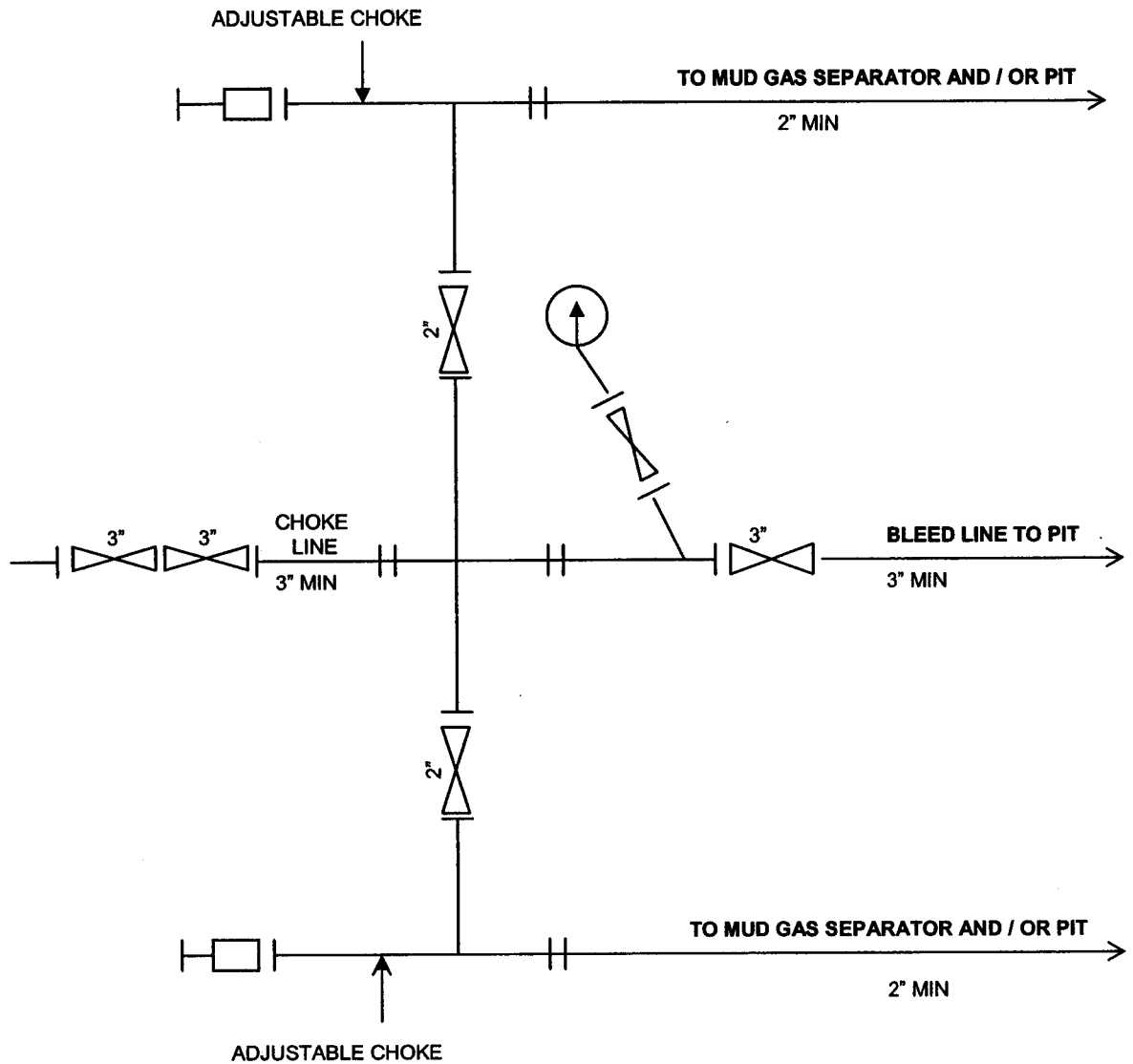
Kill line will be minimum 2" diameter  
and have 2 valves, one of which shall  
be a minimum 2" check valve

**EXHIBIT #1**

**MAKJ ENERGY**

**3M Choke Manifold Equipment**  
(Configuration of chokes may vary)

**EXHIBIT #1A**



Upper kelly cock will have handle available.  
Safety valve and subs will fit all drill string connections in use  
All BOPE connections subjected to well pressure will be flanged, welded, or clamped

Buck Camp Unit #14-4  
Federal Lease #U-73019  
534' FWL & 482' FSL  
Section 4, T12S-R22E  
Uintah County, Utah

**MAKJ ENERGY**

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Buck Camp Unit #14-4**  
**Federal Lease Number U-73019**  
**534' FWL & 482' FSL**  
**Section 4, T12S-R22E, SLB&M**  
**Uintah County, Utah**

**1. EXISTING ROADS**

- A. The proposed well site digital photographs, elevation/survey plat, location layout, cross section, and topographic maps ('A' Topo and 'B' Topo) are attached.
- B. To reach the well site proceed from Ouray, Utah 10.7 miles south on Seep Ridge Road, turn left (east) on Bitter Creek Road and travel 9.2 miles to East Bench Road. Turn right (south) on East Bench Road and travel another 9.4 miles to the proposed access road. Turn right (west) onto the access road and travel +/- 400 feet to the location as proposed on 'B' Topo.
- C. The access road to the well is color coded and labeled as shown on 'B' Topo.
- D. Existing highways and roads in the area are under the jurisdiction of the BLM or Uintah County.

**2. PLANNED ACCESS ROADS**

- A. The proposed access road will depart from East Bench Road and continue in a westerly direction for +/- 400 feet to the location (See 'B' Topo). The access road is located entirely on Federal Lease #U-73019.
- B. The access road will be crown and ditch construction. The general access road width will have a 15' traveling surface. A maximum disturbance width of 30' is requested (i.e., road right-of-way = 30 feet). If necessary, the access road width on curves with impaired visibility, due to topography, will be a 17' traveling surface. The route for this road was chosen to minimize surface disturbance in providing access to the location. There will be no drainage ditches built.
- C. The access road grade will average 0 to 5%.
- D. No turnouts are planned except at the access road entrance and at the location.
- E. Water bars will be placed if appropriate. None are anticipated.
- F. No culverts, bridges, or major cuts and fills are anticipated.
- G. Surfacing materials will consist of native surface soil, native alluvium where present, and 3/4" road-base crush from a commercial gravel pit if gravel is required due to drilling, completion, or production operations.

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
**Attached to Form 3160-3**  
**Mak-J Energy Operating Company, LLC.**  
**Buck Camp Unit #14-4**  
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**534' FWL & 482' FSL**  
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**Uintah County, Utah**

- H. Based upon the field inspection conducted on November 18, 2004 no cattle guards and / or culverts are anticipated at this time.
- I. No additional ROW's will be required.

**3. LOCATION OF EXISTING WELLS**

For the location of existing wells within a one-mile radius of the subject well, see Exhibit 'D'. The wells indicated on Exhibit 'D' are all that Mak-J Energy is aware of at this time.

- A. There are No domestic water wells within a one-mile radius.
- B. There are 2 abandoned wells within a one-mile radius.
- C. There are No temporarily abandoned wells within a one-mile radius.
- D. There are No known disposal wells within a one-mile radius.
- E. There are No drilling wells within a one-mile radius.
- F. There are 1 producing wells within a one-mile radius.
- G. There are No known shut-in wells within a one mile radius.
- H. There are No known injection wells within a one-mile radius.

**4. LOCATION OF EXISTING OR PROPOSED FACILITIES IF WELL IS PRODUCTIVE**

- A. If the well is productive, contemplated facilities will be as follows:
  - (1) The tank battery will be located on solid ground of the cut area of the drill pad. All Mak-J Energy facilities will be contained on the planned well pad.
  - (2) Refer to Figure #3 for the proposed production facility schematic.
  - (3) Dependent upon flow test results, a heated gas separator, multiple 400 bbl tanks, and a meter house will be required. All well pad flow lines and piping will be buried and

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**Buck Camp Unit #14-4**  
**Federal Lease Number U-73019**  
**534' FWL & 482' FSL**  
**Section 4, T12S-R22E, SLB&M**  
**Uintah County, Utah**

installed according to API specifications. Construction materials will consist of excavated alluvium, shale, and soils (except top soils). Use of additional materials from outside sources is not anticipated at this time (with the exception of 3/4" crushed road-base gravel from a commercial pit). All facilities will be painted Olive Black as agreed to during the on-site inspection on 11/18/2004.

- (4) No surface pits are planned at this time.

**B. Off well pad:**

- (1) A bare 4" gas sales line will be installed and buried underground and extend easterly approximately 380' to an existing 4" gathering line owned and operated by Canyon Gas Resources (See 'C' Topo). **The proposed pipeline route has been centerline staked, will be buried, and will be located directly adjacent to the access road. At no point will the pipeline fall outside of the 30' road right-of-way.** Archaeological surveys have been completed for this route and are attached to this permit. Construction will be contingent upon well-test results and permit approval / clearance by the BLM, State of Utah, and Uintah County authorities. The pipeline route will remain entirely on lease and will not require a separate right-of-way.
- (2) No additional facilities are planned at this time.
- (3) No additional protective measures are planned to protect livestock and wildlife.

**5. LOCATION AND TYPE OF WATER SUPPLY**

- A. Water will be obtained from the State of Utah, Willow Creek at Buck Canyon under A-1 Tank Rental water permit #49-2179. Should water not be available from this source a second alternative would be to obtain water from the State of Utah at Bitter Creek under Dalbo, Inc. water permit number #49-2180. In the likely event that water cannot be collected from either of these two sources water will be purchased from a water well located in Ouray, Utah under water permit #43-8496, A-1 Tank Rental.
- B. Water will be hauled by tank truck to the drilling site as needed. The access will conform to roads identified on 'A' Topo.
- C. No water well will be drilled on, or near, this well location.

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**6. SOURCE OF CONSTRUCTION MATERIALS**

- A. No construction materials are anticipated for drilling the well or constructing the access road onto the location. Compacted cut material will be utilized for the drilling site and access road. Drill-site top soil will be stockpiled for re-vegetation and placed between Points 2 and 8 as shown on Figure #1. As discussed at the on-site on November 18, 2004 the drill site will avoid the fenced antelope guzzler located east of the well pad and reserve pit. If necessary the reserve pit will be reduced in size to accomplish this.
- B. Only native construction materials in the permitted area of disturbance, outlined for use in construction herein, will be used from BLM administered lands.
- C. Native surface soil materials for construction of the new access road should be sufficient. If necessary, road surface materials (3/4" road-base) will be purchased from the dirt contractor. An appropriate crush will be specified.
- D. 'A' Topo and 'B' Topo identify the access roads. Uintah County and Bureau of Land Management roads are involved. Care will be taken in maintaining BLM and County road entrances and will adhere to BLM and Uintah County Standards.
- E. Figure #2 shows proposed cut & fill cross-sections for the location.

**7. METHODS OF HANDLING WASTE DISPOSAL**

- A. Methods and location of proposed safe containment and disposal of waste material are:
  - (1) Cuttings not retained for evaluation purposes will be discharged into the reserve pit as shown on Figure #1.
  - (2) A portable chemical toilet will be provided on the location for human waste. Trailer septic tank facilities will be provided for trailer wastes. This sewage waste will be removed to and disposed of at the Ashley Valley Sewage Treating Plant.
  - (3) Garbage and trash produced during drilling, completion and testing operations will be handled in a trash cage. This garbage will be hauled to the Uintah County landfill after drilling / completion operations are finished. Water and tailings will be disposed into the reserve pit.

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- (4) Small amounts of potassium chloride are anticipated in the drilling mud system and will be disposed of in the reserve pit.
  - (5) No toxic waste/chemicals subject to reporting under SARA Title III in an amount greater than 10,000 pounds will be used in the proposed operations.
  - (6) If the well is productive, produced water will be disposed of at the Ace Disposal - 10 miles west of Vernal, Utah.
- B. Drilling mud/water will be contained in steel mud tanks or in the reserve pit. It will be disposed of by pit evaporation or hauled to an appropriate disposal facility. Oil produced during drilling operations, if sufficient, will be trucked from location. The reserve pit will be lined with a synthetic liner as described in section 9C. The reserve pit will contain any excess flow from the well during mud drilling and cementing operations. The dimensions of the pit will be approximately 150' x 100' x 10' deep as shown in Figure #1. As discussed earlier, the reserve pit will be reduced in size if necessary to avoid the fenced antelope guzzler located just east of the pit.
- C. After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All stock piles of top soil will be seeded with the mixture described in Section 10A and will be walked in with a dozer to hold seed and minimize erosion. Any open pits will be fenced after drilling operations conclude and these pits will remain fenced until they have dried. All pits will be back filled, re-contoured, and re-seeded when pits are dry enough to backfill as weather permits. Only that part of the pad required for production operations and well maintenance operations will be kept in use. All other drill pad areas will be re-contoured and re-seeded. In the event of a dry hole, only an appropriately specified dry hole marker will remain.

**8. ANCILLARY FACILITIES**

No air strip, campsite, or other facilities will be constructed during drilling and completion operations at this well site.

**9. WELL SITE LAYOUT**

- A. Refer to Figure #1 for the drill pad layout as staked. Planned cuts and fills across the location are shown on Figure #2. Topsoil will be stockpiled on the northeast edge of the location (between Points #2 and #8) for reclamation & re-contouring as discussed on the on-site 11-18-2004.
- B. Refer to Figure #1 for a planned location diagram of the proposed rig and drilling equipment, reserve



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pit, and pipe racks. No permanent living facilities are planned. There will be trailers for supervision on the site. Sewage will be collected in septic facilities for disposal.

- C. The rig orientation, turn-around area, parking area, and access road entrance onto location are shown on Figure #1. The reserve pit will be located on the eastern corner of the location. A plastic nylon reinforced liner will be used. **It will be a minimum of 12 mil thickness with felt bedding to cover any rocks.** The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

The flare pit may receive cuttings, gas, and mud/water during drilling operations. The flare pit will be approximately 20' x 20' x 6' deep. The flare pit will be located at least 100' (nearest corner or edge) from the wellbore, +/-30 ft from the southwest corner of the reserve pit. A minimum 10' earthen backstop of earth fill shall be constructed at the far end of the flare pit. Earthen embankments shall be constructed to prevent fluid loss to surrounding lands. Flare pit fluids shall drain via a trench, by gravity, into the reserve pit (see Figure #1).

The reserve pit will be fenced with 39-inch net wire with one strand of barbed wire on the three (3) exterior sides prior to the commencement of drilling operations. The fourth side will be fenced when the rig moves off location. The flare pit will be fenced on all sides prior to the commencement of drilling operations.

## **10. PLANS FOR RESTORATION OF SURFACE**

### **A. Productive Well**

The plan for rehabilitation of the disturbed area no longer needed for production operations after drilling and completion activities are finished is as follows:

The entire location will be inspected for trash and other refuse, and such trash/refuse if found, will be cleaned up.

Oil or other adverse substance on the pits will be removed in accordance with 43 CFR 3162.7-1.

The pit liner will be torn and perforated before back filling of the reserve pit after the contents of the pit are dry.

The area of the drill site not needed for producing operations/facilities and well maintenance operations will be re-contoured to the original contours as nearly as possible and re-vegetated/re-

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seeded along contours. Vegetation and rehabilitation will be achieved by reseeding after re-contouring the site. A seed mixture of 3 #/acre Four Wing Salt Bush, 3 #/acre Indian Rice Grass, 3 #/acre Needle & Thread Grass, and 1 #/acre Crested Wheat will be used. Time to complete rehabilitation depends upon the time necessary for pits to dry. Pit closure, re-contouring, planting, and re-vegetation should occur by fall 2005, if normal weather patterns ensue.

C. Dry Hole/Abandoned Location

If the well is to be plugged and abandoned, a subsequent report of abandonment will be submitted to obtain the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP**

The surface ownership of the access road and location is BLM.

12. **OTHER INFORMATION**

A Cultural Resources Survey, by Montgomery Archaeological Consultants, Moab, Utah has been completed for the proposed well site, access road, and pipeline route. No significant cultural resources were identified. The archaeological reports are attached to this permit. A Paleontological Reconnaissance Report has also been completed by Montgomery Archeological Consultants. It is also included in this report and no signs of fossil material inside the proposed construction area were found. An on-site inspection was conducted on November 18, 2004 under NOS procedure. In attendance were Paul Buhler, Bureau of Land Management - Vernal Resource Area, Mr. Jim Oldham of Diamond J Construction Inc., and Todd S. McDonald with Mak-J Energy Operating Company LLC.

Noxious weeds will be controlled along rights-of-way for roads, pipelines, well sites, or other applicable facilities pertaining to this project. A pesticide use proposal will be submitted prior to the application of herbicides or pesticides.

Drilling rigs and/or equipment will not be stacked or stored on Federal lands.

No construction or drilling activities shall be conducted between May 15th and June 20th because of proximity to an antelope kidding area unless otherwise approved by the Vernal BLM Resource Area office.

13. **LESSEE'S AND OPERATOR'S REPRESENTATIVE**

**SURFACE USE AND OPERATING – 13 POINT PLAN**  
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**Uintah County, Utah**

Mak-J Energy Operating Company, LLC.  
370 17<sup>th</sup> Street, Suite 2710  
Denver, Colorado 80202

Contact: Todd S. McDonald  
Vice President  
phone: (303) 339-5873 office  
phone: (303) 320-4523 home  
phone: (303) 842-0883 cellular

**CERTIFICATION**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access routes; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Mak-J Energy Operating Company, LLC. and its contractors and subcontractors in conformity with this plan and the terms & conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C.1001 for the filing of a false statement.

Date: November 30, 2004



Todd S. McDonald  
Vice President  
Mak-J Energy Operating Company, LLC.

**CULTURAL RESOURCE INVENTORY OF  
MAK-J ENERGY'S PROPOSED WELL LOCATIONS  
BUCK CAMP UNITS #22-28, #31-5, #33-4,  
AND #14-4, UINTAH COUNTY, UTAH**

**BY:**

**Katie Simon**

**Prepared For:**

**Bureau of Land Management  
Vernal Field Office**

**Prepared Under Contract With:**

**Mak-J Energy  
370 East 17 th Street, Suite 2710  
Denver, CO 80202**

**Prepared By:**

**Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532**

**MOAC Report No. 04-286**

**November 15, 2004**

**United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122**

**State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-1323b**

## ABSTRACT

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) in October 2004 for Mak-J Energy near Buck Camp, Uintah County, Utah. The proposed well locations are designated Buck Camp Unit #22-28, #31-5, #33-4 and #14-4. The four proposed well locations with associated access routes and pipelines are located in Township 11 South, Range 22 East, Sections 28 and Township 12 South, Range 22 East, Sections 4 and 5. A total of 73.7 acres was inventoried on land administered by the Bureau of Land Management (Vernal Field Office).

The inventory of Mak-J Energy's four proposed well locations resulted in the documentation of one small historic temporary camp site, 42Un4528, which is recommended as not eligible to the NRHP. A recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

## INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) in October 2004 for four Mak-J Energy's proposed well locations Buck Camp Unit #22-28, #31-5, #33-4 and #14-4 in Uintah County, Utah. The survey was implemented at the request of Mr. Todd McDonald, Mak-J Energy Company, Denver, Colorado. The project is situated on lands administered by the Bureau of Land Management (BLM), Vernal Field Office.

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on October 28, 2004 by Katie Simon. The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 04-UT-60122, State of Utah Antiquities Permit (Survey) No. U-04-MQ-1323b issued to MOAC, Moab, Utah.

A file search for previous cultural resource inventories and archaeological sites was conducted by Katie Simon at BLM Vernal Field Office on October 27, 2004. An in-house file search was also conducted at the MOAC office. These consultations indicated that a cultural resource inventory was conducted near the current project area in 1998 resulting in the documentation of one site (42Un2551) in the area. Site 42Un2551 is a non-eligible historic trash scatter and does not occur within the current inventory parcel (Polk and Diamond 1998). In November 2002, MOAC conducted a cultural resource inventory of two access routes for the Veritas DGC Land Uintah seismic project in Section 28 of Township 11 South Range 22 East (Montgomery 2002). The inventory resulted in no cultural resources. Also in 2002, TRC Mariah Associates conducted a Class III inventory of the Uinta 2-D seismic project lines 13 and 14 (Craven 2002).

## DESCRIPTION OF THE PROJECT AREA

Mak-J Energy's proposed well locations Buck Camp Unit #22-28, #31-5, #33-4 AND #14-4 are located near Buck Camp, Uintah County, Utah, which is situated northeast of Price, Utah and southwest of Bonanza, Utah. The legal description of the current project is Township 11 South, Range 22 East, Sections 28 and Township 12 South, Range 22 East, Sections 4 and 5 (Table 1 and Figure 1).

Table 1. Mak-J Energy Well Locations with Legal Descriptions, Access and Pipeline Corridor Lengths, and Cultural Resources

Buck Camp Unit #22-28	T11S R22E Sec. 28	1800 Ft	None
Buck Camp Unit #31-5	T11S R22E Sec. 5	5000 Ft.	None
Buck Camp Unit #33-4	T11S R22E Sec. 4	2000 Ft.	42Un4528
Buck Camp Unit #14-4	T11S R22E Sec. 4	100 Ft.	None

#### Environmental Setting

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits which include Paleocene age deposits, and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops formed by fluvial deposited, stream laid interbedded sandstone and mudstone, and is known for its prolific paleontological localities.

Specifically, the inventory area is situated on East Bench, two miles east of Bitter Creek and three miles east of the Rock House Gas Field. The area is dissected and carved by ephemeral drainages on a flat broad ridge. The surface geology consists of hard pan residual soil armored with shale and sandstone pebbles as well as some sand shadows. The elevation ranges between 5960 feet and 5680 feet a.s.l. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, prickly pear cactus, Indian ricegrass and non-native vegetation. Modern disturbances include grazing, roads, and oil/gas development. Modern disturbances include livestock grazing, roads, and oil/gas development.

## SURVEY METHODOLOGY

An intensive pedestrian survey was performed by the archaeologist walking parallel transects spaced no more than 10 meters apart, which is considered 100% coverage for this project. At each of the proposed well locations, a 10 acre square was defined, centered on the well pad center stake. Access roads and pipeline corridors were surveyed to a width of 30 m (100 ft) when they occurred separately and 45 m (150 ft) when they occurred together. Ground visibility was considered good. A total of 73.7 acres was inventoried for cultural resources, all of which occur on land administered by the BLM, Vernal Field Office.

## INVENTORY RESULTS

The inventory of Mak-J Energy's four proposed well locations resulted in the documentation of one small historic temporary camp site, 42Un4528, which is recommended as not eligible to the NRHP.

<u>Smithsonian Site No.:</u>	42Un4528
<u>Legal Description:</u>	T 12S R22E, Sec. 4 NW/NW/SE
<u>Jurisdiction:</u>	BLM, Vernal Field Office
<u>NRHP Eligibility:</u>	Not Eligible

Description: This site is a small, low density historic temporary camp situated on a north facing slope with a minor canyon to the east in a greater tableland region of the southern Uinta Basin. It consists of a can scatter of four hole-in-cap cans and five sanitary cans including one "sanitary embossed can) and one hearth feature (Feature A). The hearth measures 29 x 14 x 6" and consists of two lichen covered, dark grey and orange sandstone rocks. The largest rock measures 19 x 17 x 6". A few charcoal fragments are scattered around the rocks, but no soil staining was observed.



## NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

Site 42Un4528 is a small low-density historic temporary camp with a limited artifact assemblage which occurs on residual soils with little potential for buried cultural material. In addition the site is a common type to the area, and the hearth feature retains little integrity. Therefore, the site is not recommended eligible to the National Register of Historic Places.

## MANAGEMENT RECOMMENDATIONS

One historic temporary camp, 42Un4528, was documented and was not recommended eligible to the NRHP. Therefore, a recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

## REFERENCES CITED

- Craven, C.  
2002 *A Class III Cultural Resource Inventory for the Uinta 2-D Seismic Project Lines 13 and 14, Uintah County, Utah.* TRC Mariah Associates Inc., Salt Lake City, Utah. Project U-02-ME-0207bps.
- Montgomery, K.R.  
2002 *Cultural Resource Inventory of Two Access Routes for the Veritas DGC Land Uintah Seismic Project, Uintah County, Utah.* Montgomery Archaeological Consultants, Inc. Moab, Utah. Project U-02-MQ-0704b.
- Polk, Ann S. And Danielle J. Diamond  
1998 *A Cultural Resource Inventory of Rosewood Federal Wells ##4-6, #5-6, #28-8, and #19-11, Uintah County, Utah.* Sagebrush Consultants, L.L.C., Ogden, Utah. Project U-98-SJ-0211b.
- Stokes, W.L.  
1986 *Geology of Utah.* Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City.

**CULTURAL RESOURCE INVENTORY OF  
MAK-J ENERGY'S PROPOSED WELL LOCATIONS  
BUCK CAMP UNITS #22-28, #31-5, #33-4,  
AND #14-4, UINTAH COUNTY, UTAH**

**Katie Simon**

## **Paleontological Reconnaissance Report**

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**Mak-J Energy's Proposed Well Pads, Access Roads, and  
Pipelines for Buck Camp Units #22-28, #33-4,  
#14-4 & #31-5, (Sec. 28, T 11 S, R 22 E)  
and (Sec. 4 & 5, T 12 S R 22 E)**

**Buck Camp Canyon  
Topographic Quadrangle  
Uintah County, Utah**

November 11, 2004

Prepared by Stephen D. Sandau  
Paleontologist for  
Montgomery Archaeological Consultants  
Box 147, 322 East 100 South  
Moab, Utah 84532

## INTRODUCTION

At the request of Todd McDonald of Mak-J Energy Company, authorized by John Mayers of the BLM Vernal Field Office, a paleontological reconnaissance survey of Mak-J's proposed well pads, access roads, and pipelines for "Buck Camp Units #22-28, #33-4, #14-4 & #31-5" (Sec.28, T 11 S, R 22 E) and (Sec. 4 & 5, T 12 S, R 22 E) was conducted by Stephen Sandau on October 28, 2004. The reconnaissance survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT-S-04-033. This survey to locate, identify and evaluate paleontological resources was done to meet requirements of the National Environmental Policy Act of 1969 and other State and Federal laws and regulations that protect paleontological resources.

## FEDERAL AND STATE REQUIREMENTS

As mandated by the US Department of the Interior Bureau of Land Management, paleontologically sensitive geologic formations in BLM lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA)(42 U.S.C. 4321.et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579).

Under policy dictated by the BLM Manual and Handbook H-8270-1 (July, 1998) formations are ranked according to their paleontological potential:

- *Condition 1* is applied to those areas known to contain fossil localities, and special consideration of the known resources is in need of evaluation.
- *Condition 2* is applied to areas that have exposures of geologic rock units known to have produced fossils elsewhere.
- *Condition 3* is applied to areas unlikely to produce fossils based on surficial geology.

Although these guidelines apply mostly to vertebrate fossils, they are equally designed to help protect rare plant and invertebrate fossil. It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

## LOCATION

The proposed well pads and their associated access roads and pipelines for "Buck Camp Units #22-28, #33-4, #14-4 & #31-5" in Sec.28, T 11 S, R 22 E and Sec. 4 & 5, T 12 S, R 22 E are on BLM land two miles west of Bitter Creek, on the south end of East Bench, and some 23-26 miles southeast of Ouray, Utah. The project area can be found on the Buck Camp Canyon 7.5 minute U. S. Geological Survey Quadrangle Map, Uintah County, Utah.

## PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) and ranges in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992), and fauna (Black and Dawson, 1966) of North America.

## GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events occurring during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded coarse-grained sandstone and conglomerates preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta, and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929), and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands, and fluvial clays, muds and sands in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931; Kay 1934). More recent work focused on magnetostratigraphy, radioscopic chronology, and continental biostratigraphy (Flynn, 1986; Prothero, 1996). Well known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

## **PROJECT AREA**

The project area is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation though most of the project area is on soil-covered ground. The following list provides a description for each individual proposed well site and its coupled access road and pipeline.

### **Buck Camp Units #22-28**

The proposed pipeline and access road follow the same route into the staked well pad area, coming off an existing pipeline and road which run north/south through the east half of Sec. 28. The planned route heads west and then curves gradually to the northwest crossing over a low tan to yellow coarse-grained sandstone unit of the Uinta Formation before entering the well pad on its east side. The proposed pipeline and access road traverse over soil-covered ground populated by sagebrush and a variety of grasses and low herbaceous plants (Figure 1). The ground is covered with fragmental sandstone residuum. The proposed well pad sits on sage-covered ground which slopes gently to the south-southwest. No outcrop or erosional surfaces were seen and the staked areas are void of fossil material.

### **Buck Camp Units #33-4**

The planned access road and pipeline follow the same route, splitting off the established pipeline and road which run north/south through the west half of Sec. 4. The access route and pipeline corridor travel east, starting on the relatively flat sagebrush-covered surface of the south end of East Bench and then heading obliquely down a slope running roughly southwest/northeast. The slope is covered with portions where a tan coarse-grained cross-bedded meter thick sandstone unit is exposed along with purple and tan medium-grained sandstone, siltstone and mudstone units. As the route reaches the bottom of the slope it crosses an ephemeral wash and continues on along the base of the opposite slope where junipers and pinion pines grow. The route enters the staked well pad from the west where the pad is situated on the gentle north slope of the hill to the south. The well pad is soil-covered with mature sagebrush and junipers and pinion pine on its southern edge (Figure 1). No fossils were found in conjunction with this proposed well pad and associated access road and pipeline.

#### **Buck Camp Units #14-4**

This proposed well site and its access road and pipeline are on flat soil-covered ground which supports a variety of grasses and scattered sagebrush. The proposed access road and pipeline veer off of the existing road and pipeline just east of the staked well pad area and enter the pad from the north side. No fossils were seen in this project area.

#### **Buck Camp Units #31-5**

The proposed access road and pipeline which follow the same route for this planned well pad start in the west half of Sec. 4, splitting off the existing road and pipeline which run north/south through that section. The route follows along an old two-track for over three quarters of a mile in a northwest direction (Figure 1). The route (two-track) traverses over ground mostly covered in soil, vegetated with sagebrush and grasses. Before entering into Sec. 5 the route climbs a small rise where green and purple sandstones, siltstones, and mudstones are exposed which have been bioturbated by invertebrates (beetles?). The same strata are crossed again as the route heads down a gentle slope towards an ephemeral wash running north/south. As the two-track approaches the northern boundary of Sec. 5, the proposed access road and pipeline leave it and head in a more westerly direction for a distance before making a strong curve to the south-southeast and entering the well pad from the northwest. Where the proposed route leaves the two-track, it starts a decent down a slope where hydrothermally altered green, gray, red and maroon sandstones, siltstones, and mudstones are exposed. These units have been heavily bioturbated and numerous burrows are preserved. Where the route makes a curve to the south-southeast similar units can be seen which are rich in calcium-carbonate. The well pad sits out on a flat soil-covered area vegetated with thick grass and scattered sagebrush with hills to the west and southwest populated with junipers. No fossil material was seen save the invertebrate burrows within the staked construction area for this well site and its allied access road and pipeline.

### **FIELD METHODS**

In order to determine if the proposed access roads, pipelines and well pads from this project area contained any paleontological resources, a "drive-by" or brief reconnaissance was performed for this project. An on-site observation of the proposed areas undergoing surficial disturbance is necessary, because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces, and are of particular importance.



## SURVEY RESULTS

WELL	GEOLOGY	PALEONTOLOGY
<p>"Buck Camp Units #22-28" (Sec. 28, T11S, R22E)</p>	<p>The planned route heads west and then curves gradually to the northwest crossing over a low tan to yellow coarse-grained sandstone unit of the Uinta Formation before entering the well pad on its east side. The proposed pipeline and access road traverse over soil-covered ground populated by sagebrush and a variety of grasses and low herbaceous plants. The ground is covered with fragmental sandstone residuum.</p>	<p>No fossils were found. Condition 3.</p>
<p>"Buck Camp Units #33-4" (Sec. 28, T11S, R22E)</p>	<p>The access route and pipeline corridor travel east, starting on the relatively flat sagebrush-covered surface and then heading obliquely down a covered slope with portions where a tan coarse-grained cross-bedded meter thick sandstone unit is exposed along with purple and tan medium-grained sandstone, siltstone and mudstone units. The well pad is soil-covered with mature sagebrush and junipers and pinion pine on its southern edge.</p>	<p>No fossils were found. Condition 3.</p>
<p>"Buck Camp Units #14-4" (Sec. 28, T11S, R22E)</p>	<p>This proposed well site and its access road and pipeline are on flat soil-covered ground which supports a variety of grasses and scattered sagebrush.</p>	<p>No fossils were found. Condition 3.</p>
<p>"Buck Camp Units #31-5" (Sec. 28, T11S, R22E)</p>	<p>The access route and pipeline traverse over ground mostly covered in soil, vegetated with sagebrush and grasses. Before entering into Sec.5 the route climbs a small rise where green and purple sandstones, siltstones, and mudstones are exposed which have been bioturbated by invertebrates (beetles?). Where the proposed route starts a decent down a slope near the well pad, hydrothermally altered green, gray, red and maroon sandstones, siltstones, and mudstones are exposed. These units have been heavily bioturbated and numerous burrows are preserved. The well pad sits out on a flat soil-covered area vegetated with thick grass and scattered sagebrush</p>	<p>Invertebrate burrows (beetles?) Condition 2.</p>

## **RECOMMENDATIONS**

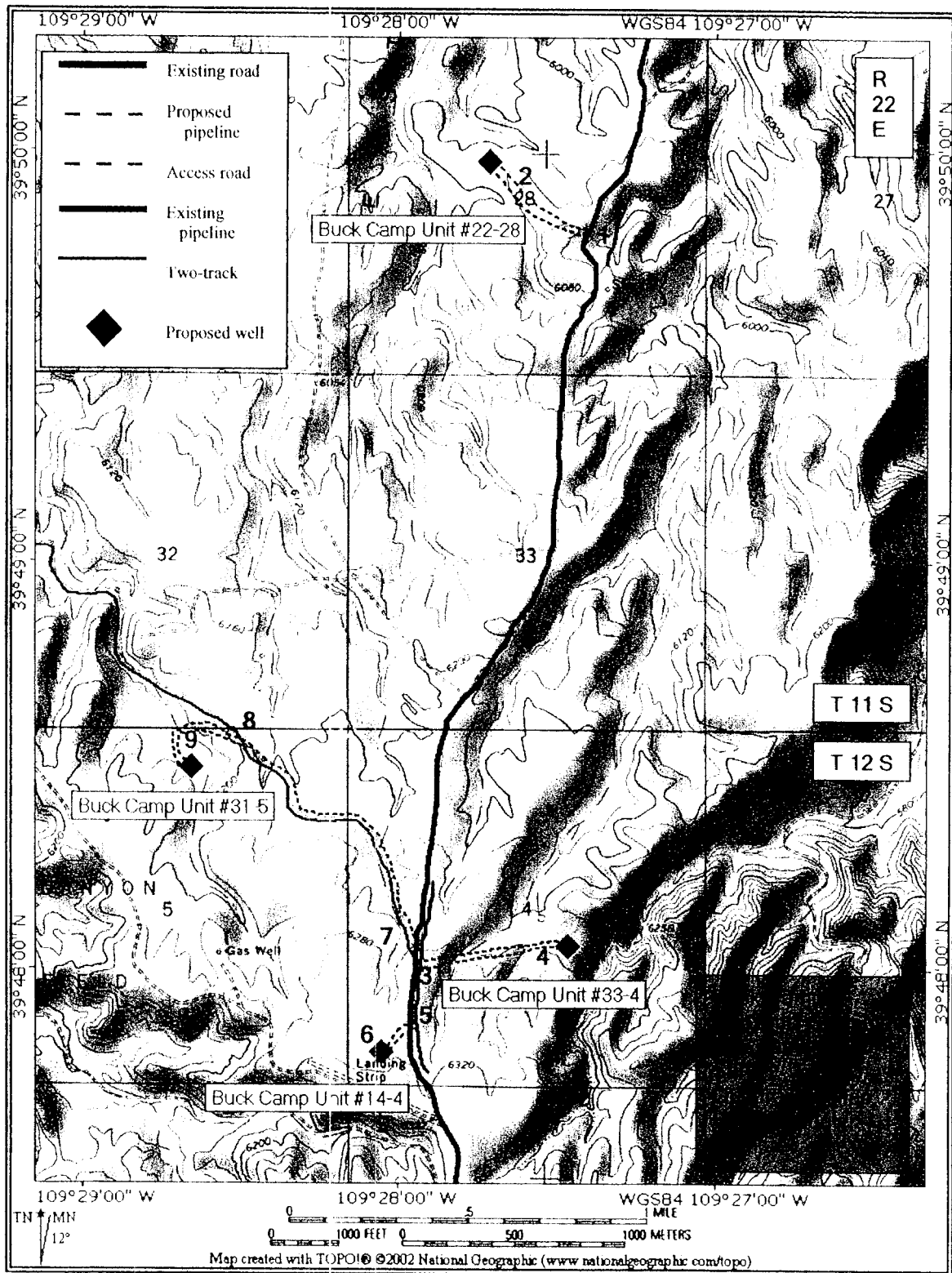
The "drive-by" and reconnaissance for the proposed wells of "Buck Camp Units #22-28, #33-4, #14-4 & #31-5" in Sec.28, T 11 S, R 22 E and Sec. 4 & 5, T 12 S, R 22 E and their associated access roads and pipelines was brief. The areas examined showed no signs of fossil material inside the proposed construction site save the invertebrate burrows mentioned in the description of Buck Camp Units #31-5. Therefore, we recommend that no paleontological limitation should be imposed upon construction related to the development of the well pads, access roads, and pipeline corridors within the project areas covered in this report.

However, if vertebrate fossil(s) are found during construction within the project area, recommendations are that a paleontologist is immediately notified in order to collect fossil materials in danger of being destroyed. Any vertebrate fossils found should be carefully moved outside of the construction areas to be check by a permitted paleontologist.

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**Figure 1.** Numbered topographic map correlates with the numbered photographs on the following pages showing the position where each picture was taken. The legend shows road, pipeline and well pad symbols.

Figure 1. *continued*

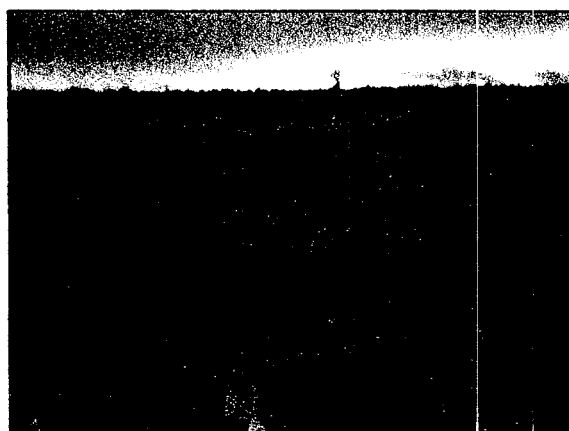
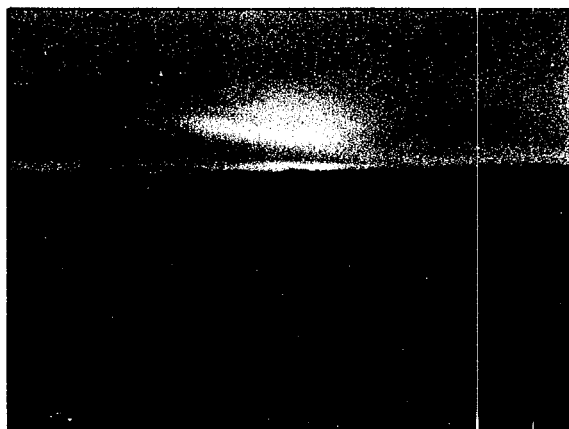
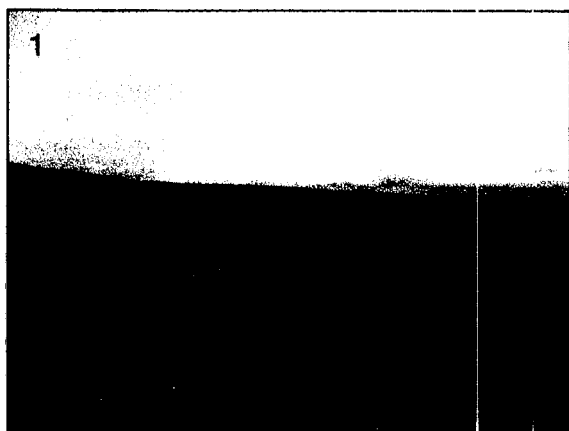
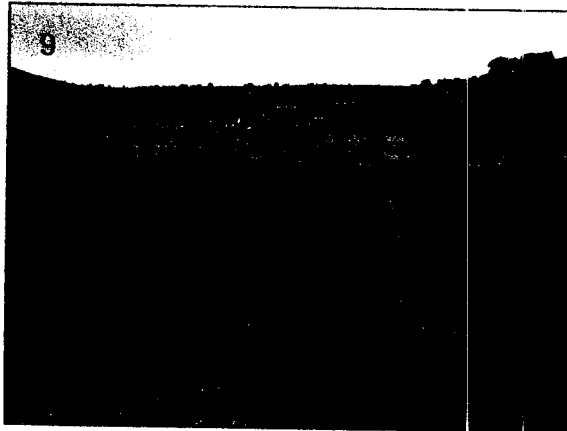
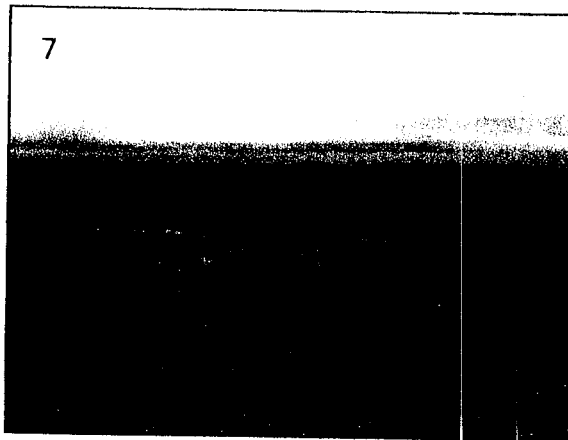


Figure 1. *continued*



**MAK J ENERGY**  
**BUCK CAMP UNIT #14-4**  
 LOCATED IN UTAH COUNTY, UTAH  
 SECTION 4, T12S, R22E, S.L.B.&M.

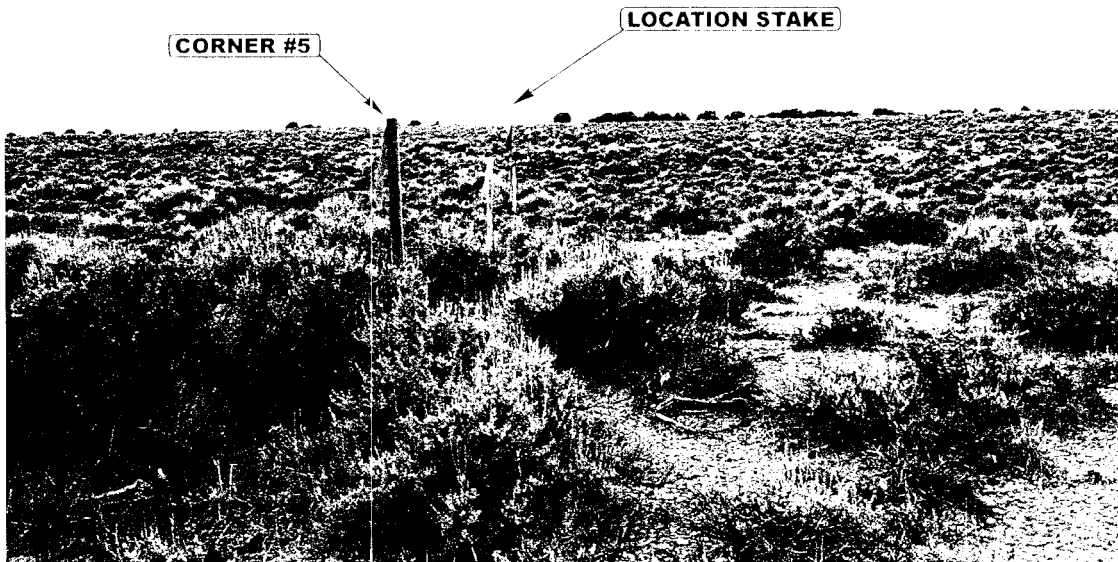


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



**E&LS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-389-1017 uelsa@uelsinc.com

LOCATION PHOTOS		10	21	04	PHOTO
		MONTH	DAY	YEAR	
TAKEN BY: K.K.	DRAWN BY: L.K.	REVISED: 00-00-00			



# MAK J ENERGY

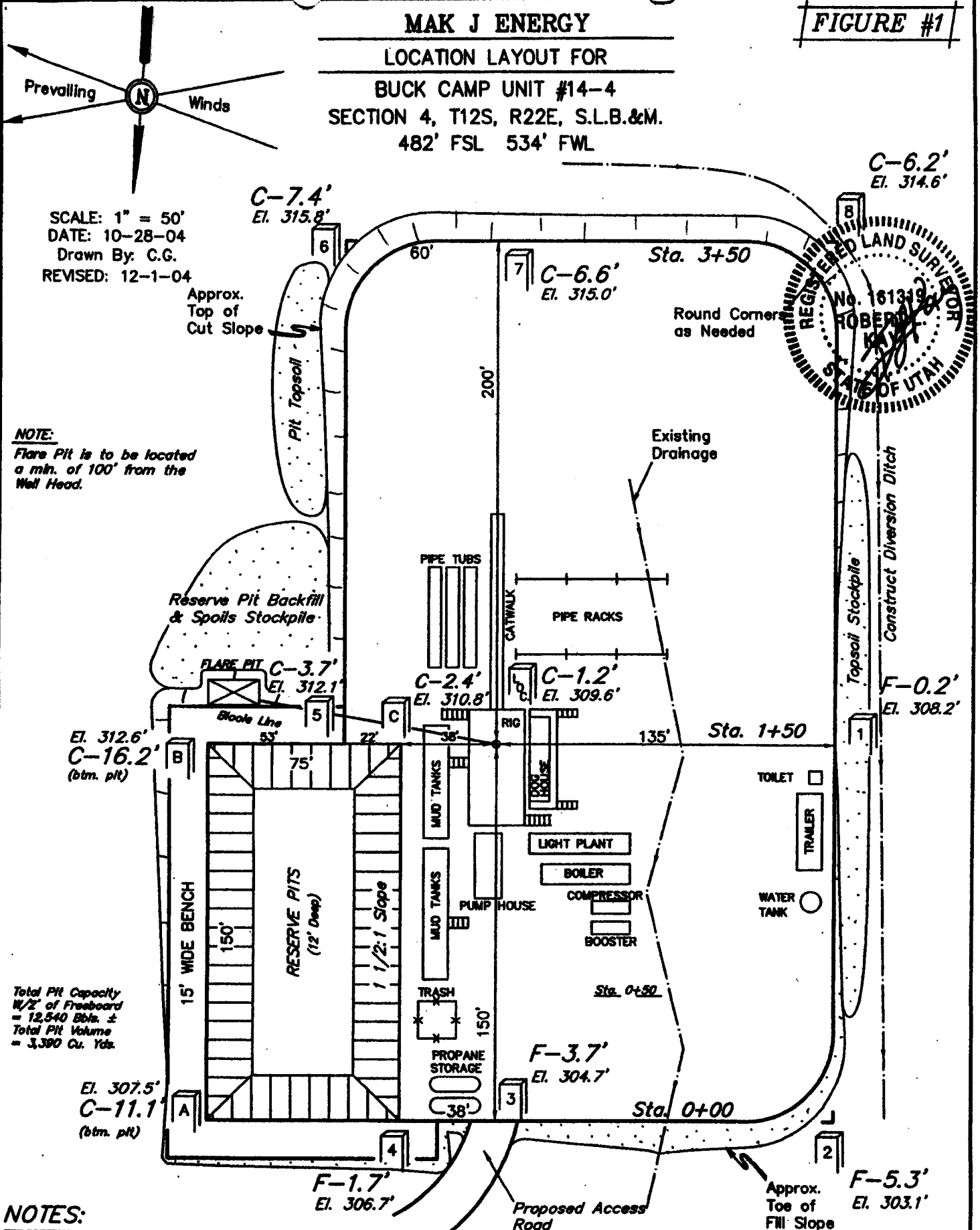
## LOCATION LAYOUT FOR

### BUCK CAMP UNIT #14-4

SECTION 4, T12S, R22E, S.L.B.&M.

482' FSL 534' FWL

FIGURE #1



#### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

Total Pit Capacity  
1/2' of Freeboard  
= 12,540 Bbls. ±  
Total Pit Volume  
= 3,390 Cu. Yds.

#### NOTES:

Elev. Ungraded Ground At Loc. Stake = 6309.6'

FINISHED GRADE ELEV. AT LOC. STAKE = 6308.4'

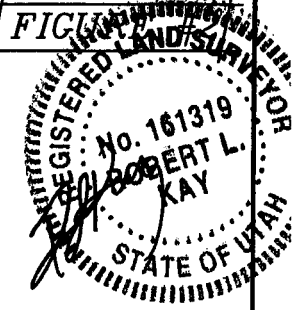
UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East • Vernal, Utah 84078 • (435) 788-1017

# MAK J ENERGY

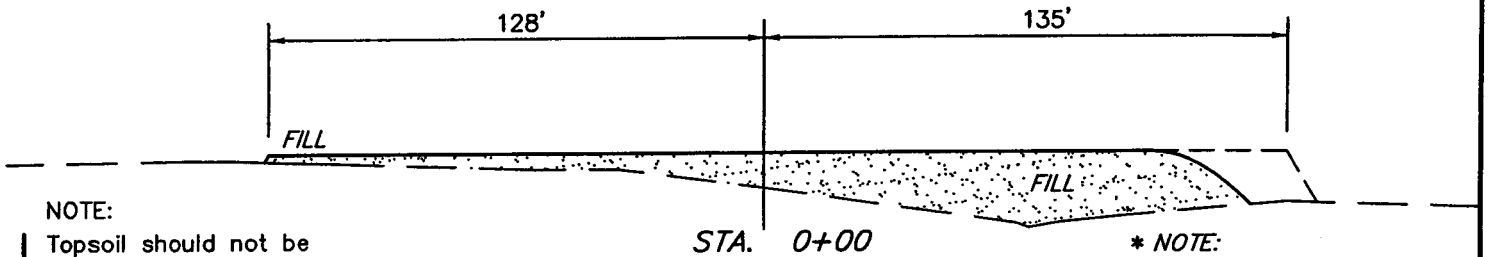
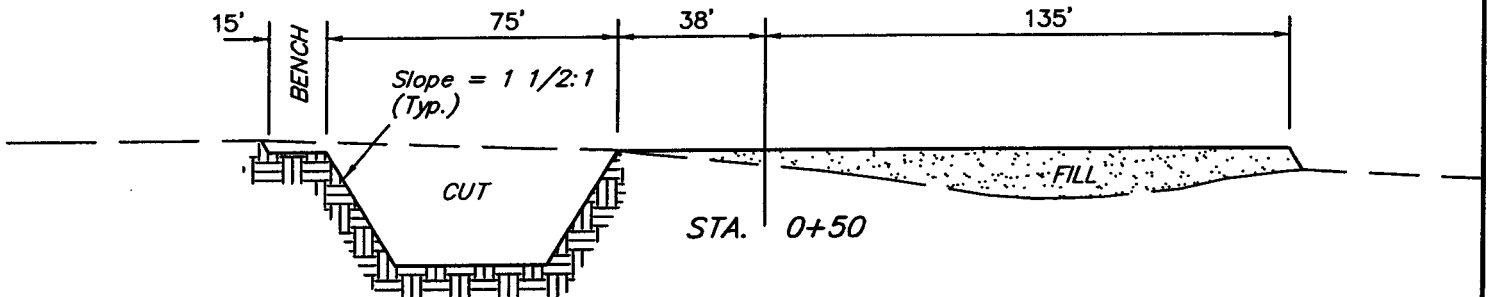
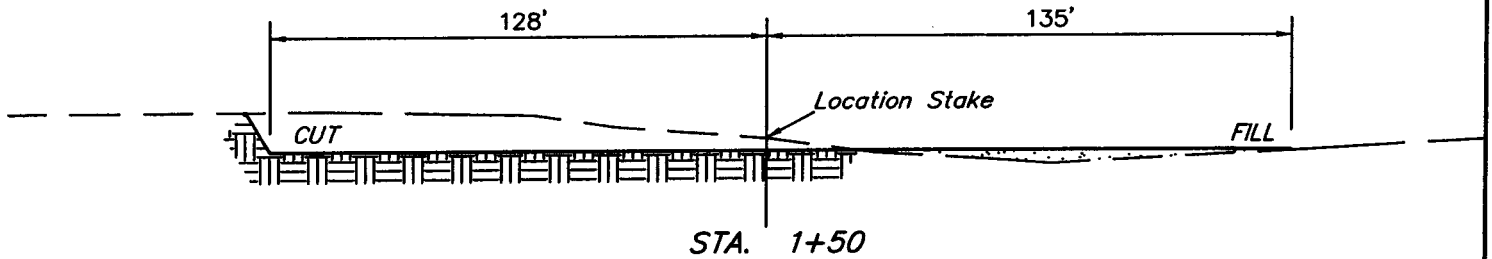
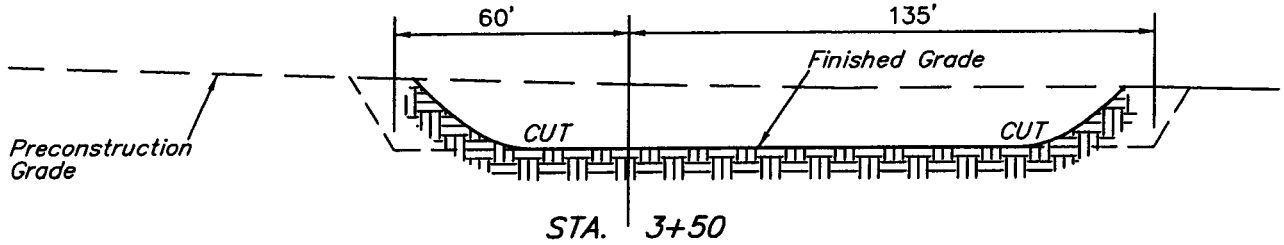
## TYPICAL CROSS SECTIONS FOR

BUCK CAMP UNIT #14-4  
SECTION 4, T12S, R22E, S.L.B.&M.  
482' FSL 534' FWL



1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 10-28-04  
Drawn By: C.G.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

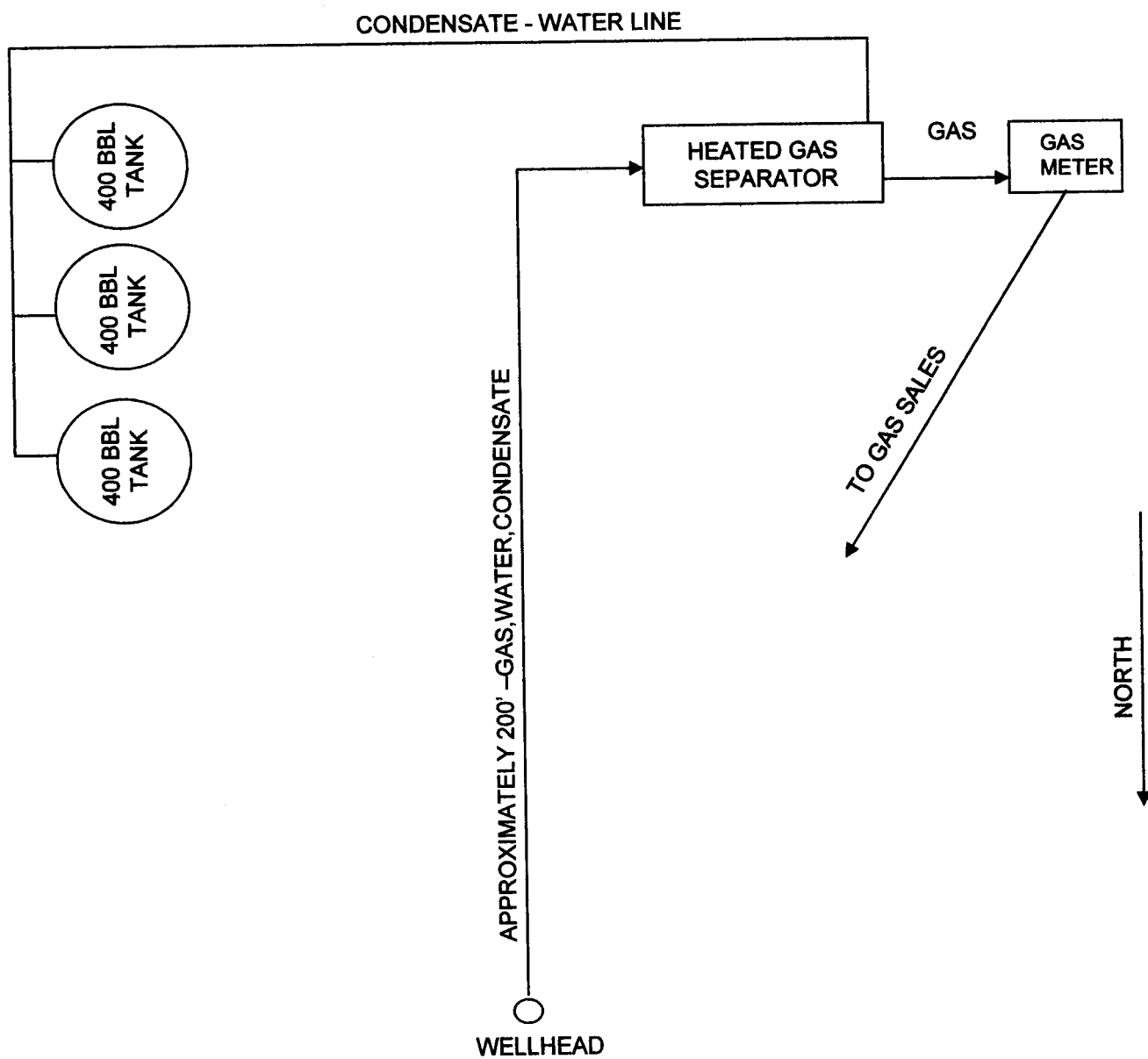
FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT  
(6") Topsoil Stripping = 1,670 Cu. Yds.  
Remaining Location = 8,140 Cu. Yds.  
TOTAL CUT = 9,810 CU.YDS.  
FILL = 3,590 CU.YDS.

EXCESS MATERIAL = 6,220 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,370 Cu. Yds.  
EXCESS UNBALANCE (After Rehabilitation) = 2,850 Cu. Yds.

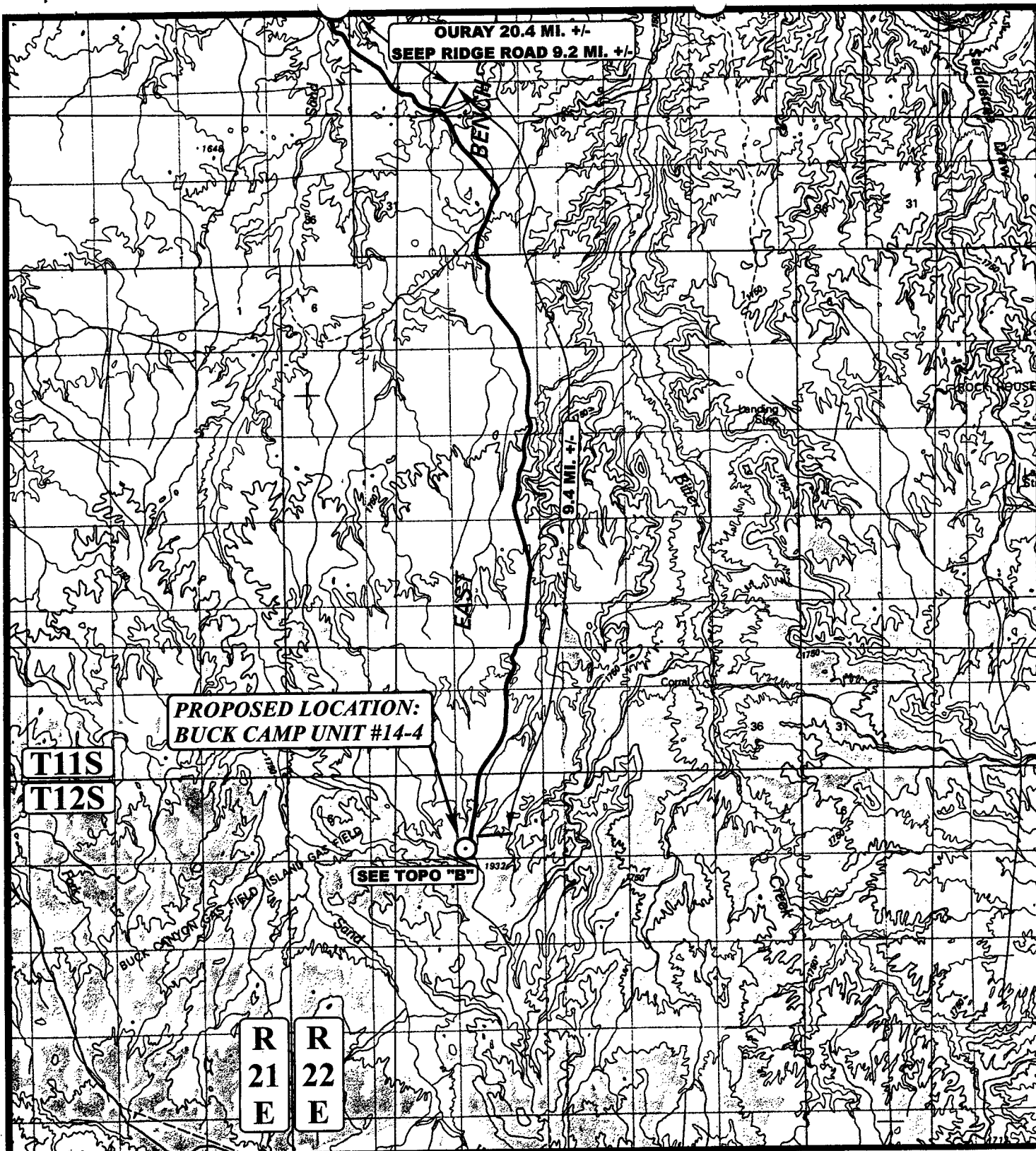
UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**FIGURE #3**  
NOT TO SCALE

MAK-J ENERGY OPERATING CO, LLC  
BUCK CAMP UNIT #14-4  
FEDERAL LEASE NUMBER U-73019  
482' FSL & 534' FWL  
SECTION 4, T12S-R22W  
UNITAH COUNTY, UTAH

ACCESS ROAD



# **LEGEND:**

○ PROPOSED LOCATION

N

**MAK J ENERGY**

**BUCK CAMP UNIT #14-4**

**SECTION 4, T12S, R22E, S.L.B.&M.**

**482' FSL 534' FWL**



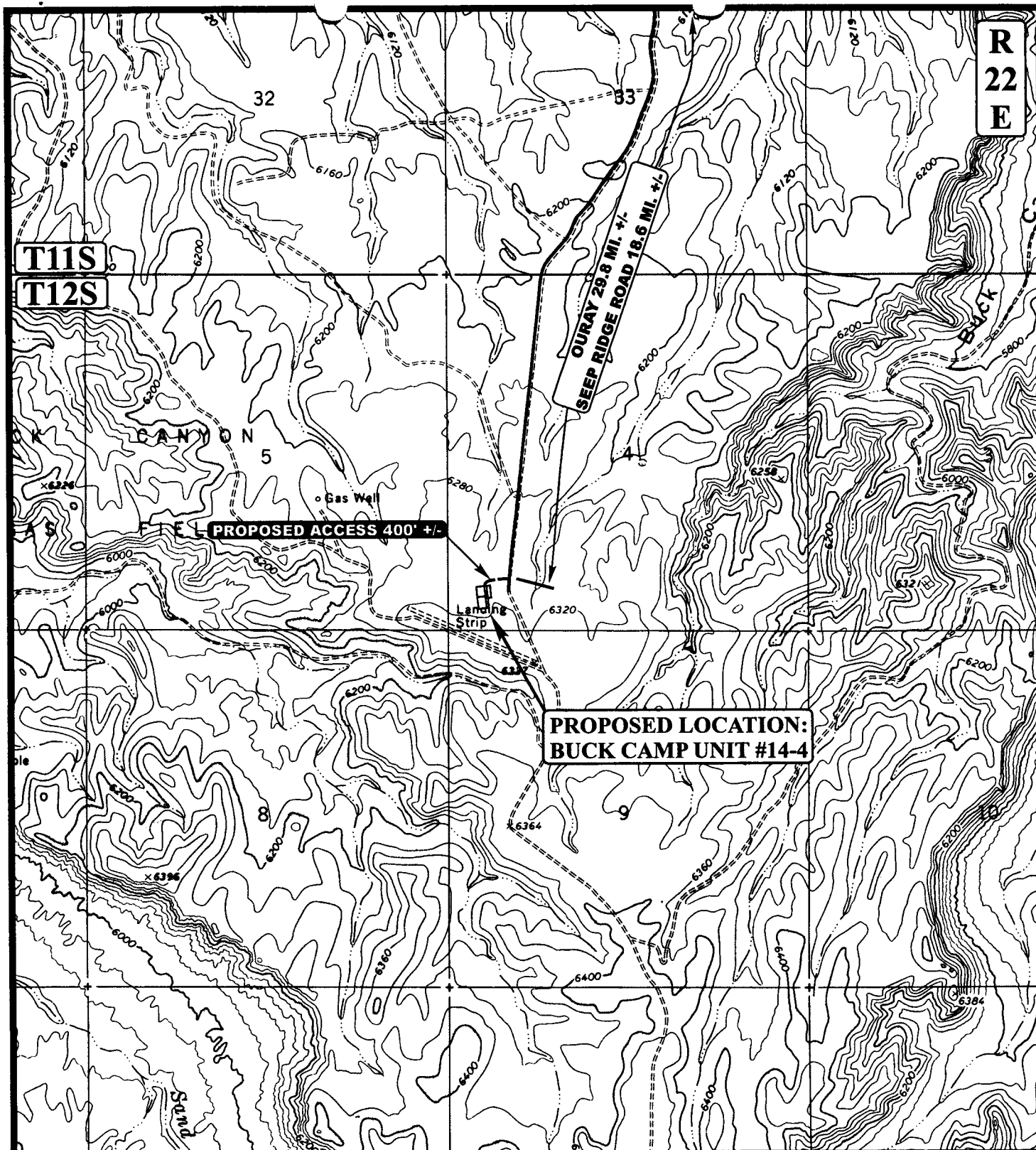
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**10 21 04**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REVISED: 00-00-00





R  
22  
E

T11S

T12S

CANYON 5

Gas Well

PROPOSED ACCESS 400' +/-

Landing Strip

PROPOSED LOCATION:  
BUCK CAMP UNIT #14-4

**LEGEND:**

———— EXISTING ROAD  
----- PROPOSED ROAD



**MAK J ENERGY**

**BUCK CAMP UNIT #14-4**  
**SECTION 4, T12S, R22E, S.L.B.&M.**  
**482' FSL 534' FWL**

**U  
E  
L  
S**

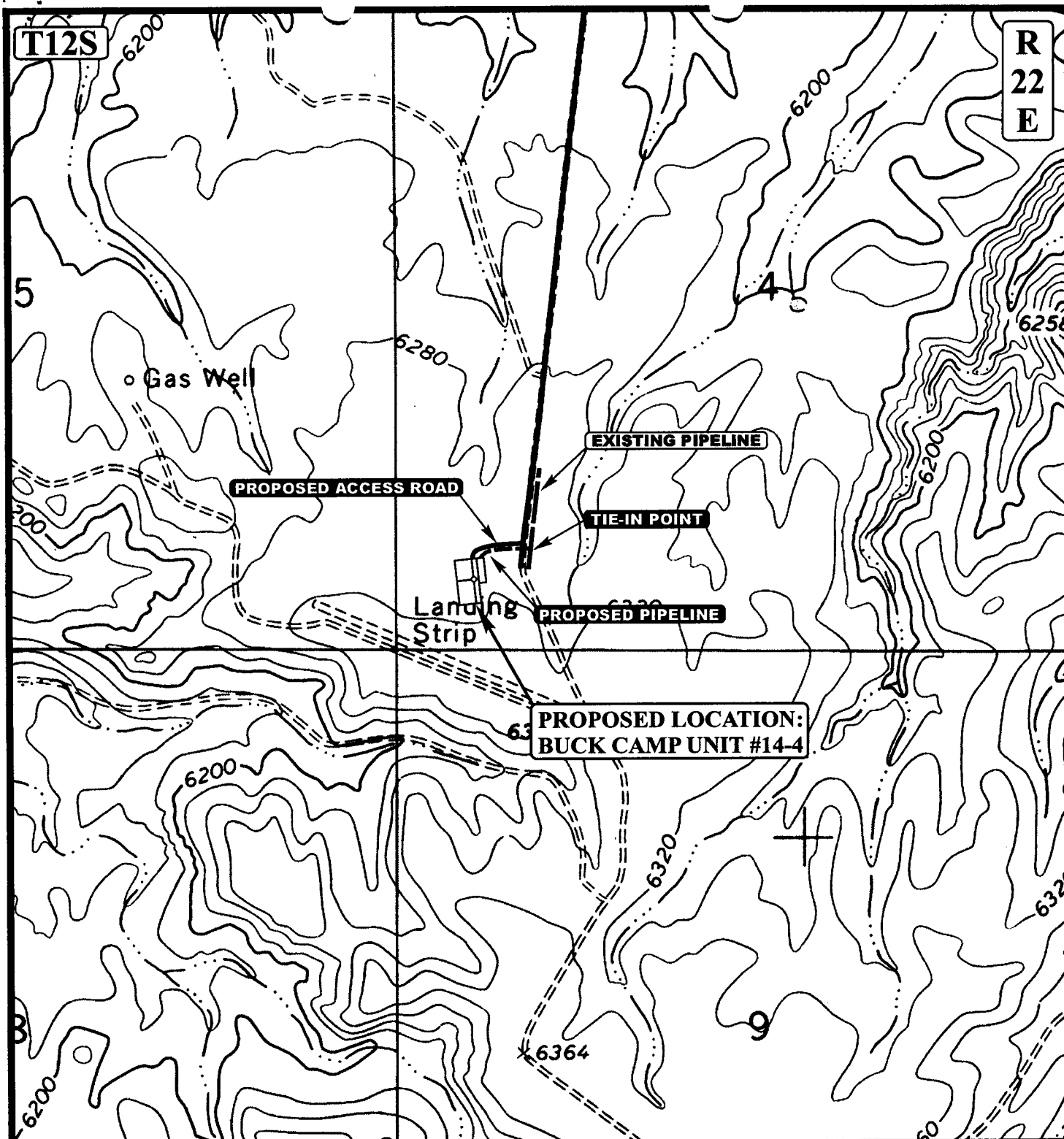
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**10** **21** **04**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00

**B**  
**TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 380' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



**MAK J ENERGY**

**BUCK CAMP UNIT #14-4**  
**SECTION 4, T12S, R22E, S.L.B.&M.**  
**482' FSL 534' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**10/21/04**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: L.K. REVISED: 00-00-00



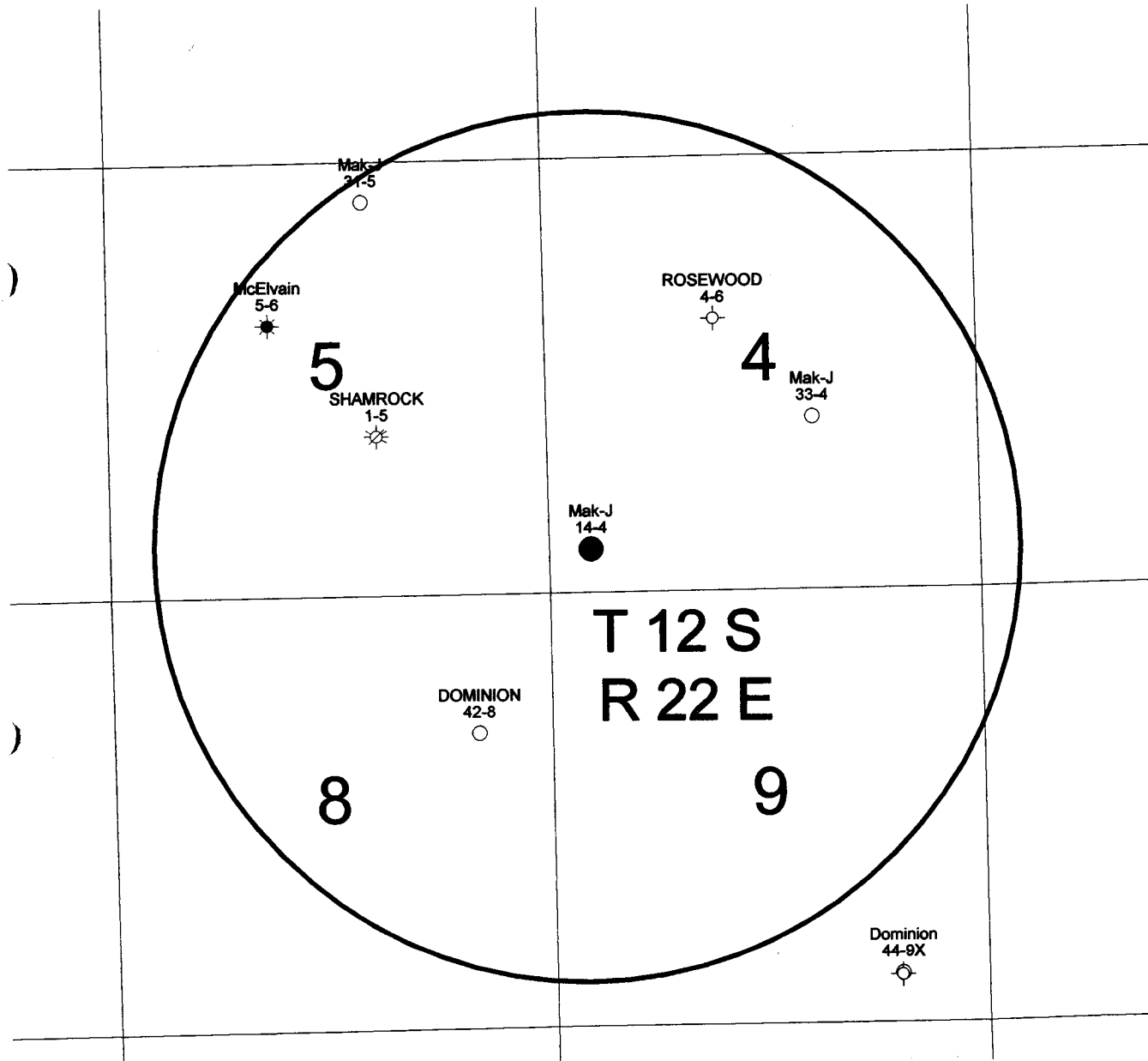


Exhibit D
Mak-J Energy Buck Camp Unit
Well No. 14-4
Uintah County, Utah (SLM)
Showing One Mile Radius Around Location
POSTED WELL DATA
Operator Well Number ●
WELL SYMBOLS
○ Location Only
★ Gas Well
◇ Dry Hole
☼ Plugged & Abandoned Gas Well
● Mak-J Location
0 1,000 2,000 FEET
December 1, 2004

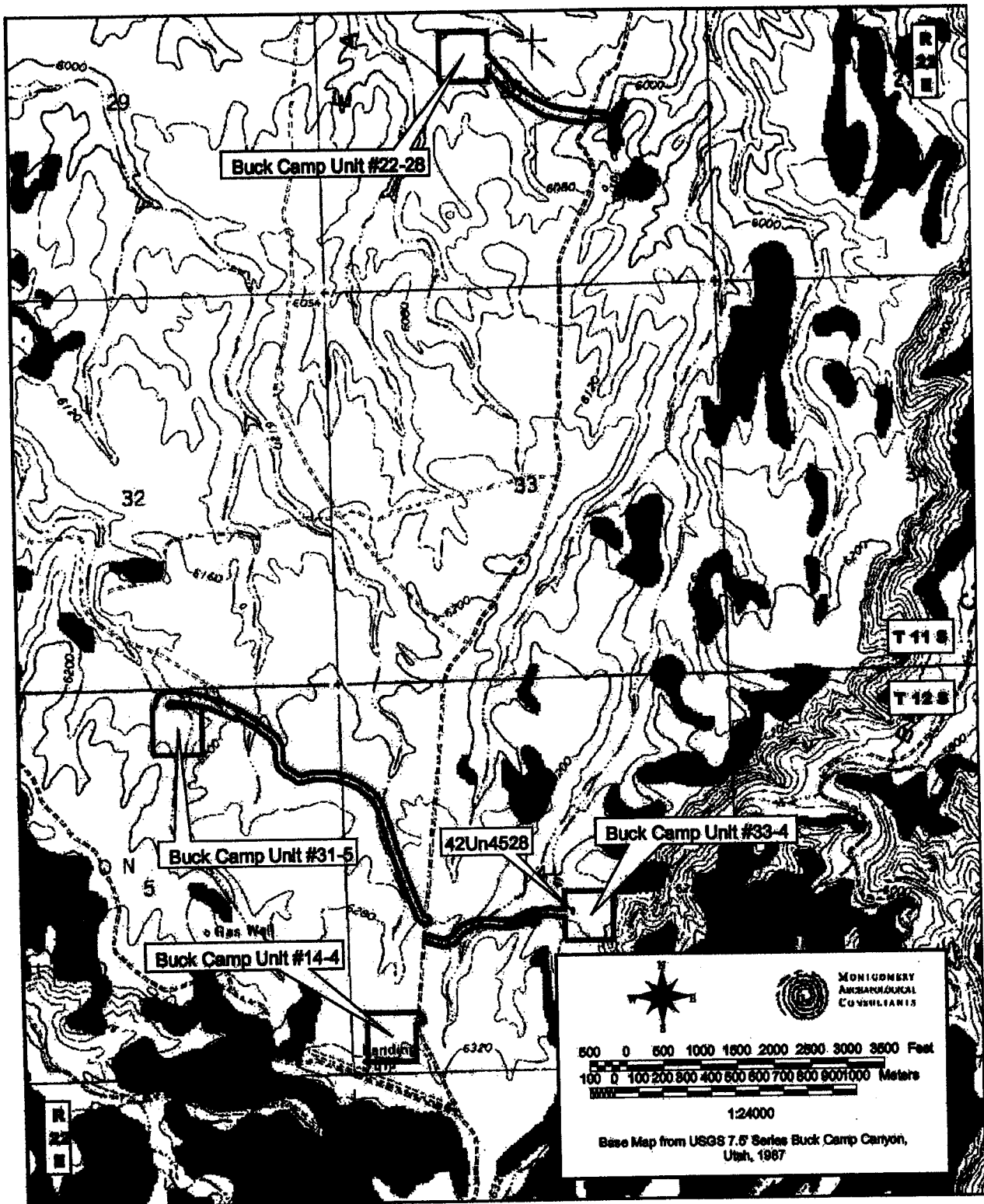


Figure 1. Inventory of Mak-J Energy's proposed Buck Camp Unit wells #22-28, #31-5, #33-4 and #14-4 with Access and Pipeline Corridors, Uintah County, Utah.



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/03/2004

API NO. ASSIGNED: 43-047-36140

WELL NAME: BUCK CAMP U 14-4

OPERATOR: MAK-J ENERGY PARTNERS ( N2670 )

CONTACT: TODD MCDONALD

PHONE NUMBER: 303-339-5873

## PROPOSED LOCATION:

SWSW 04 120S 220E

SURFACE: 0482 FSL 0534 FWL

BOTTOM: 0482 FSL 0534 FWL

UINTAH

BUCK CANYON ( 565 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: U-73019

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MNCS

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.79672

LONGITUDE: -109.4668

## RECEIVED AND/OR REVIEWED:

- ☒ Plat
- ☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. UTB000160 )
- ☒ Potash (Y/N)
- ☒ Oil Shale 190-5 (B) or 190-3 or 190-13
- ☒ Water Permit  
 (No. 49-2179 )
- ☒ RDCC Review (Y/N)  
 (Date: )
- ☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

R649-2-3.

Unit

☒ R649-3-2. General  
 Siting: 460 From Qtr/Qtr & 920' Between Wells

R649-3-3. Exception

Drilling Unit

Board Cause No: \_\_\_\_\_

Eff Date: \_\_\_\_\_

Siting: \_\_\_\_\_

R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

1- Federal Approval

2- Spacing Map



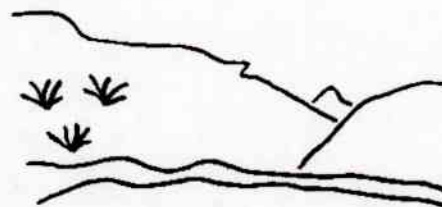
OPERATOR: MAK-J ENERGY OPER CO (N2670)

SEC. 4 T.12S R.22E

FIELD: BUCK CANYON (565)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING



Utah Oil Gas and Mining

#### Wells

- ⬮ GAS INJECTION
- ⬮ GAS STORAGE
- × LOCATION ABANDONED
- ⊙ NEW LOCATION
- ⬮ PLUGGED & ABANDONED
- ⬮ PRODUCING GAS
- PRODUCING OIL
- ⬮ SHUT-IN GAS
- ⬮ SHUT-IN OIL
- × TEMP. ABANDONED
- ⬮ TEST WELL
- ⬮ WATER INJECTION
- ⬮ WATER SUPPLY
- ⬮ WATER DISPOSAL

#### Units.shp

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Fields.shp

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



PREPARED BY: DIANA WHITNEY  
DATE: 7-DECEMBER-2004



State of Utah

Department of  
Natural Resources

ROBERT L. MORGAN  
*Executive Director*

Division of  
Oil, Gas & Mining

LOWELL P. BRAXTON  
*Division Director*

OLENE S. WALKER  
*Governor*

GAYLE F. McKEACHNIE  
*Lieutenant Governor*

December 7, 2004

Mak-J Energy Operating Company, LLC  
370 17th St., Suite 2710  
Denver, CO 80202

Re: Buck Camp Unit 14-4 Well, 482' FSL, 534' FWL, SW SW, Sec. 4,  
T. 12 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36140.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".  
John R. Baza  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Mak-J Energy Operating Company, LLC  
**Well Name & Number** Buck Camp Unit 14-4  
**API Number:** 43-047-36140  
**Lease:** U-73019

**Location:** SW SW                      **Sec.** 4                      **T.** 12 South                      **R.** 22 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEC 03 2004

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

005

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. U-73019
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator MAK-J OPERATING COMPANY, LLC		7. If Unit or CA Agreement, Name and No. BUCK CAMP UNIT
3a. Address 370 17TH STREET, STE 2710 DENVER, CO 80202		8. Lease Name and Well No. 14-4
3b. Phone No. (include area code) 3033395873		9. API Well No. 431047-36140
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 534' FWL & 482' FSL At proposed prod. zone SAME AS ABOVE		10. Field and Pool, or Exploratory BUCK CANYON
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 29 MILES SOUTHEAST OF OURAY, UTAH		11. Sec., T. R. M. or Blk. and Survey or Area SEC. 4, T12S-R22E, S.L.B & M
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 482'	16. No. of acres in lease 2159.59	12. County or Parish UNITAH
17. Spacing Unit dedicated to this well 40	13. State UT	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2107'	19. Proposed Depth 8,300'	20. BLM/BIA Bond No. on file BOND APPROVED
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6310' UNGRADED GROUND	22. Approximate date work will start* 02/15/2005	23. Estimated duration 12 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Todd S. McDonald</i>	Name (Printed/Typed) TODD S. MCDONALD	Date 12/01/2004
--	--	--------------------

Title VICE PRESIDENT	RECEIVED MAR 23 2005	
Approved by (Signature) <i>Thomas R. Cleary</i>	Name (Printed/Typed) DIV. OF OIL, GAS & MINING	Date 03/18/2005
Title Assistant Field Manager Mineral Resources		

Application approval does not warrant or certify that the applicant holds legal prequisite title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

NOTICE OF APPROVAL

UD0061

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: McElvain Oil & Gas Properties Inc.

Well Name & Number: Buck Camp 14-4

Lease Number: U-73019

API Number: 43-047-36140

Location: SWSW Sec. 4 T. 12S R. 22E

Agreement: Buck Camp Unit

**CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**A. DRILLING PROGRAM**

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to John Mayers of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 3M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil & Gas Order No. 2, regarding air or gas drilling shall be adhered to.

3. Casing Program and Auxiliary Equipment

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

**Please submit an electronic copy of all logs run on this well in LAS format. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF or other).**

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Written notification of such must be submitted to this office not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).



No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal Field Office. All meter measurement facilities will conform to Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Kirk Fleetwood      (435) 828-7874  
Petroleum Engineer

Michael Lee          (435) 828-7875  
Petroleum Engineer

BLM FAX Machine   (435) 781-4410

**THERE ARE NO ADDITIONAL CONDITIONS FOR THE SURFACE USE PROGRAM.**

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: U-73019
2. NAME OF OPERATOR: MAK-J ENERGY OPERATING COMPANY, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: 370 17TH STREET, STE 271 CITY DENVER STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: BUCK CAMP UNIT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 482' FSL & 534' FWL		8. WELL NAME and NUMBER: BUCK CAMP UNIT #14-4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E		9. API NUMBER: 4304736140
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: BUCK CANYON
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>permit extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Mak-J Energy Operating Company, LLC respectfully requests a one year extension to the approved State APD for the subject well dated December 7, 2004.

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 02-02-06  
By: [Signature]

COPIES SENT TO OPERATOR  
DATE: 02-09-06  
BY: [Signature]

NAME (PLEASE PRINT) <u>TODD S. MCDONALD</u>	TITLE <u>VICE PRESIDENT</u>
SIGNATURE <u>[Signature]</u>	DATE <u>1/30/2006</u>

(This space for State use only)

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FEB 02 2006

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-36140  
**Well Name:** Buck Camp Unit #14-4  
**Location:** 482' FSL & 534' FWL, Section 4, T12S-R22E  
**Company Permit Issued to:** Mak-J Energy Operating Company, LLC.  
**Date Original Permit Issued:** 12/7/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Joe A. McDaniel  
Signature

1/30/2006  
Date

Title: Vice President

Representing: Mak-J Energy Operating Company, LLC.

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FEB 02 2006

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. U-73019
2. Name of Operator MAK-J ENERGY OPERATING COMPANY, LLC.		6. If Indian, Allottee or Tribe Name NA
3a. Address 370 17TH ST., SUITE 2710, DENVER, CO. 80202	3b. Phone No. (include area code) 303-339-5873	7. If Unit or CA/Agreement, Name and/or No. BUCK CAMP UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2047' FSL & 2039' FEL, SECTION 4, T12S-R22E, S.L.B.&M		8. Well Name and No. BUCK CAMP UNIT #33-4
		9. API Well No. 43-047-36141
		10. Field and Pool, or Exploratory Area BUCK CANYON
		11. County or Parish, State UINTAH, UTAH

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other permit extension
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Mak-J Energy Operating Company LLC. respectfully requests a one year extension to the Federal Approved Permit to Drill dated 3/18/2005 for the subject well.

## CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) TODD S. MCDONALD		Title VICE PRESIDENT
Signature <i>Todd S. McDonald</i>	Date 02/01/2006	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by <i>Mark Baker</i>	Petroleum Engineer	Date FEB 14 2006
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Instructions on page 2)

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FEB 17 2006

DIV. OF OIL, GAS &amp; MINING

UDOGM

# **CONDITIONS OF APPROVAL**

## **MAK-J Energy Operating Co.**

### **Notice of Intent APD Extension**

**Lease:** UTU-73019  
**Well:** Buck Camp Unit 33-4  
**Location:** NWSE Sec 4-T12S-R22E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 03/18/07
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Matt Baker of this office at (435) 781-4490

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL	OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73019
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: Buck Camp
4. LOCATION OF WELL		8. WELL NAME and NUMBER: Buck Camp Unit 14-4
FOOTAGES AT SURFACE: 482' FSL - 534' FWL		9. API NUMBER: 4304736140
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E S		10. FIELD AND POOL, OR WILDCAT: Buck Canyon

COUNTY: Uintah

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 3/3/2006	<input checked="" type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Name/Number Change
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Change Well Name and Number as follows:

FROM: Buck Camp Unit 14-4  
TO: Buck Camp Unit 12-22-14-4

NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist  
SIGNATURE [Signature] DATE 3/2/2006

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RECEIVED

MAR 06 2006

DIV. OF OIL, GAS & MINING

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

Enduring Resources, LLC

N2750

3. ADDRESS OF OPERATOR:

475 17th Street

CITY

DENVER

STATE

CO

ZIP 80202

PHONE NUMBER:

(303) 573-1222

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 482' FSL & 534' FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E

STATE:

UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:

U-73019

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

NA

7. UNIT or CA AGREEMENT NAME:

BUCK CAMP UNIT

8. WELL NAME and NUMBER:

BUCK CAMP UNIT #14-4

9. API NUMBER:

4304736140

10. FIELD AND POOL, OR WILDCAT:

BUCK CANYON

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION



NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:



SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:



ACIDIZE



ALTER CASING



CASING REPAIR



CHANGE TO PREVIOUS PLANS



CHANGE TUBING



CHANGE WELL NAME



CHANGE WELL STATUS



COMMINGLE PRODUCING FORMATIONS



CONVERT WELL TYPE



DEEPEN



FRACTURE TREAT



NEW CONSTRUCTION



OPERATOR CHANGE



PLUG AND ABANDON



PLUG BACK



PRODUCTION (START/RESUME)



RECLAMATION OF WELL SITE



RECOMPLETE - DIFFERENT FORMATION



REPERFORATE CURRENT FORMATION



SIDETRACK TO REPAIR WELL



TEMPORARILY ABANDON



TUBING REPAIR



VENT OR FLARE



WATER DISPOSAL



WATER SHUT-OFF

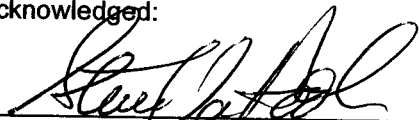


OTHER: permit transfer

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully requests the transfer of the State Approved Permit to Drill dated 12/7/2004 for the subject well. This APD was originally permitted by Mak-J Energy Operating, LLC who has sold their interest in this lease to Enduring Resources, LLC effective February 1, 2006.

Acknowledged:



Steve Van Hook, Vice President  
Mak-J Energy Operating, LLC  
370 17th Street, Suite 2710  
Denver, CO 80202

N2670

NAME (PLEASE PRINT) Alex B. Campbell

TITLE Vice President

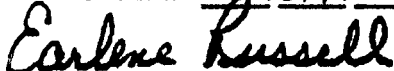
SIGNATURE 

DATE

03/01/06

(This space for State use only)

APPROVED 3/29/06



Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

MAR 06 2006

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

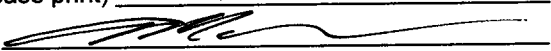
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	Buck Camp Unit 14-4
<b>API number:</b>	4304736140
<b>Location:</b>	Qtr-Qtr: SWSW Section: 4 Township: 12S Range: 22E
<b>Company that filed original application:</b>	Mak J Energy
<b>Date original permit was issued:</b>	12/07/2004
<b>Company that permit was issued to:</b>	Mak J Energy

Check one	Desired Action:
<input type="checkbox"/>	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?		<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?		<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>RLB0008031</u>	<input checked="" type="checkbox"/>	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Alvin R. (Al) Arlian Title Landman - Regulatory Specialist  
Signature  Date 03/02/2006  
Representing (company name) Enduring Resources, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

RECEIVED

MAR 06 2006

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

MAR 08 2006

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. U-73019
2. Name of Operator ENDURING RESOURCES, LLC		6. If Indian, Allottee or Tribe Name NA
3a. Address 47517TH ST., SUITE 1500, DENVER, CO. 80202	3b. Phone No. (include area code) 303-573-1222	7. If Unit or CA/Agreement, Name and/or No. BUCK CAMP UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 482' FSL & 534' FWL, SECTION 4, T12S-R22E, S.L.B.&M		8. Well Name and No. BUCK CAMP UNIT #14-4
		9. API Well No. 43-047-36140
		10. Field and Pool, or Exploratory Area BUCK CANYON
		11. County or Parish, State UINTAH, UTAH

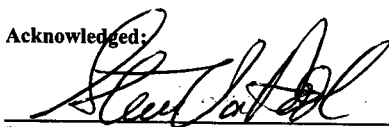
## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Transfer APD</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Enduring Resources, LLC respectfully requests the transfer of the Federal Approved Permit to Drill dated 3/18/2005 for the subject well. This APD was originally permitted by Mak-J Energy Operating, LLC who has sold their interest in this lease to Enduring Resources, LLC effective February 1, 2006.

Acknowledged:

  
Steve Van Hook, Vice President  
Mak-J Energy Operating, LLCSEE  
ATTACHMENT

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Alex B. Campbell

Title Vice President

Signature

Date

03/01/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

MAR 12 2006

Approved by

RETURNED TO  
OPERATOR

Title

Date

MAR 14 2006

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UDOGM  
(Instructions on page 2)

MAR 24 2006

DIV. OF OIL, GAS &amp; MINING


## SELF-CERTIFICATION STATEMENT

The following self-certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Enduring Resources, LLC is considered to be the operator of the following well.

Buck Camp Unit 14-4  
SWSW 482' FSL – 534' FWL  
Section 4-T12S-R22E S.L.B. & M.  
Lease Serial No.: UTU-73019  
Uintah County, Utah

Enduring Resources, LLC is responsible under the terms and conditions of the lease for the operations conducted upon leased lands. Bond coverage is provided by UTB000173.



Alvin R. (Al) Arlian  
Regulatory Specialist  
Enduring Resources, LLC  
475 17th Street, Suite 1500  
Denver, CO 80202  
(303) 350-5114

March 2, 2006

Date:

RECEIVED

MAR 24 2006

DIV. OF OIL, GAS & MINING

**Reason for Return**

We have reviewed your Sundry Notice and return the request for the following reason.

These wells are in the Buck Camp Unit (UTU-81892X), a Federal Unit. Therefore, Enduring Resources, LLC will need to submit a change in operator, in triplicate, for the unit to Teresa Thompson, Bureau of Land Management State Office, P O Box 45155, Salt Lake City, Utah 84145-0155, and receive approval to become the new operator.

Please be aware that Mak-J Energy Operating, LLC is still considered the unit operator and is held responsible for the wells until approval is given to Enduring Resources, LLC from the Utah State Office of the Bureau of Land Management.

If you have any questions concerning this matter, please contact Leslie Wilcken of this office at (435) 781-4497.

RECEIVED

MAR 24 2006

DIV. OF OIL, GAS & MINING



6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/15/2006 BIA n/a

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 3/29/2006
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 3/29/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 3/28/2006

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000173

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number n/a
2. The FORMER operator has requested a release of liability from their bond c n/a  
The Division sent response by letter on:

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73019
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: n/a
4. LOCATION OF WELL FOOTAGES AT SURFACE: 482' FSL - 534' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E S		8. WELL NAME and NUMBER: Buck Camp Unit 12-22-14-4
PHONE NUMBER: (303) 350-5719		9. API NUMBER: 4304736140
		10. FIELD AND POOL, OR WILDCAT: Undesignated
		COUNTY: Uintah
		STATE: UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: Request for APD Extension

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 2/2/2007  
TO: 2/2/2008

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-08-07  
By: [Signature]

1-8-07  
RM

NAME (PLEASE PRINT) Evette Bissett	TITLE Regulatory Compliance Assistant
SIGNATURE [Signature]	DATE 1/3/2007

(This space for State use only)

RECEIVED

JAN 05 2007

DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304736140  
**Well Name:** Buck Camp Unit 12-22-14-4  
**Location:** 482' FSL - 534' FWL, SWSW, Sec 4, T12S-R22E  
**Company Permit Issued to:** Mac-J Energy Operating, LLC  
**Date Original Permit Issued:** 12/7/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

1/3/2007  
Date

Title: Regulatory Compliance Assistant

Representing: Enduring Resources, LLC

RECEIVED  
JAN 05 2007

DIV. OF OIL, GAS & MINING

**CONFIDENTIAL**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Enduring Resources, LLC

3. ADDRESS OF OPERATOR:  
475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
(303) 350-5719

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 482' FSL - 534' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E S

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU-73019

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
n/a

7. UNIT or CA AGREEMENT NAME:  
n/a

8. WELL NAME and NUMBER:  
Buck Camp Unit 12-22-14-4

9. API NUMBER:  
4304736140

10. FIELD AND POOL, OR WILDCAT:  
Undesignated

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Request for APD Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 1/8/2008  
TO: 1/8/2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR  
Date: 1-8-2008  
Initials: RS

Date: 01-07-08  
By: [Signature]

NAME (PLEASE PRINT) Alvin R. (Al) Arlian

TITLE Landman - Regulatory Specialist

SIGNATURE [Signature]

DATE 1/2/2008

(This space for State use only)

RECEIVED

JAN 07 2008

DIV. OF OIL, GAS & MINING

RESET

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304736140  
**Well Name:** Buck Camp Unit 12-22-14-4  
**Location:** 482' FSL - 534' FWL, SWSW, Sec 4, T12S-R22E  
**Company Permit Issued to:** Mac-J Energy Operating, LLC  
**Date Original Permit Issued:** 12/7/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

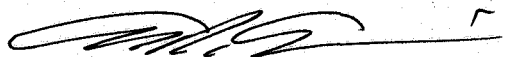
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

1/2/2008

Date

Title: Landman - Regulatory Specialist

Representing: Enduring Resources, LLC

**RECEIVED**

**JAN 07 2008**

**DIV. OF OIL, GAS & MINING**



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/utah/vernal>



IN REPLY REFER TO:

3160

UT08300

February 8, 2008

43-047-3 4140

Alvin R. Arlian  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, CO 80202

Re: Notification of Expiration  
Well No. Buck Camp Unit 12-22-14-4  
SWSW, Sec. 4, T12S, R22E  
Uintah County, Utah  
Lease No. UTU-73019  
Buck Camp Unit

Dear Mr. Arlian:

The Application for Permit to Drill the above-referenced well was approved on March 18, 2005. A one (1) year extension of the original APD was requested. The request was reviewed and the extension approved until March 18, 2007. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact me at (435) 781-4455.

Sincerely,

*Cindy Severson*

Cindy Severson  
Land Law Examiner

cc: UDOGM

RECEIVED  
FEB 13 2008  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73019
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: n/a
PHONE NUMBER: (303) 350-5114		8. WELL NAME and NUMBER: Buck Camp Unit 12-22-14-4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 482' FSL - 534' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 4 12S 22E S		9. API NUMBER: 4304736140
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesignated
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Request for APD Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 1/7/2009  
TO: 1/7/2010

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 1.13.2009

Initials: KS

Date: 01-12-09  
By: [Signature]

NAME (PLEASE PRINT) Alvin R. (Al) Arlian	TITLE Landman
SIGNATURE [Signature]	DATE 1/2/2009

(This space for State use only)

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JAN 08 2009

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304736140  
**Well Name:** Buck Camp Unit 12-22-14-4  
**Location:** 482' FSL - 534' FWL, SWSW, Sec 4, T12S-R22E  
**Company Permit Issued to:** Mac-J Energy Operating, LLC  
**Date Original Permit Issued:** 12/7/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

1/2/2009

Date

Title: Administrative Assistant

Representing: Enduring Resources, LLC

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DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-73019
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> Enduring Resources, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b> BUCK CAMP
<b>3. ADDRESS OF OPERATOR:</b> 475 17th Street, Suite 1500 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> BUCK CAMP U 12-22-14-4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0482 FSL 0534 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 04 Township: 12.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047361400000
<b>PHONE NUMBER:</b> 303 350-5114 Ext		<b>9. FIELD and POOL or WILDCAT:</b> BUCK CANYON
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 12/18/2009	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input checked="" type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>		
<p>The location reclaimed to original contours and reseeded 12/18/2009. The location was disked to prepare the seed bed, the seed broad cast over the seed bed and harrowed to bury the seed. The location was seeded with the following seed mix. At least double the recommended PLS per acre were used because the seed could not be drilled due to rocky location and was broadcast instead. 21# Indian Rice Grass 28# Crested Wheat Grass 21# Green Needle Grass 21# Shad Scale Salt Bush 14# Black Sage Brush 3.5# Four Wing Salt Bush The Packing Slip and bag tags for the seed will be kept in the Vernal Well File and available on request.</p>		
<b>NAME (PLEASE PRINT)</b> Alvin Arlian		<b>PHONE NUMBER</b> 303 350-5114
<b>SIGNATURE</b> N/A		<b>TITLE</b> Landman-Regulatory
		<b>DATE</b> 12/29/2009



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

January 20, 2010

Al Arlian  
Enduring Resources, LLC  
475 17<sup>TH</sup> Street Ste 1500  
Denver, CO 80202

Re: APD Rescinded – Buck Camp Unit 12-22-14-4, Sec. 4 T.12S, R. 22E  
Uintah County, Utah API No. 43-047-36140

Dear Mr. Arlian:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 7, 2004. On February 2, 2006, January 8, 2007, January 7, 2008 and January 12, 2009 the Division granted a one-year APD extension. On January 11, 2010, you requested that the division rescind the state approved APD. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 11, 2010.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal